# Free read Api architecture the big picture for building apis api university series 2 (2023)

API Architecture Designing Web APIs Building APIs with Node.js Building an API Product Build APIs You Won't Hate The Design of Web APIs Pro RESTful APIs Mastering API Architecture API Management Building Data Science Applications with FastAPI Building Python Web APIs with FastAPI GraphQL API Design Designing Web APIs with Strapi Hands-On RESTful Web Services with Go Enterprise API Management API Design Patterns Building Web APIs with ASP.NET Core Building Modern Serverless Web APIs Building AI Applications with ChatGPT APIs Web API Development with ASP.NET Core 8 Principles of Web API Design Building RESTful Web services with Go APIs: A Strategy Guide Continuous API Management Designing Web APIs Business of APIs Building Hypermedia APIs with HTML5 and Node Design and Build Great Web APIs Mastering Minimal APIs in ASP.NET Core RESTful API Design Production Ready GraphQL Designing APIs with Swagger and OpenAPI Undisturbed REST Beginning API Development with Node.js PHP Web Services Modern API Design with ASP.NET Core 2 Defending APIs Building Polyfills Building Web APIs with ASP.NET Core Building REST APIs with Flask

#### API Architecture

2015-05-22

looking for the big picture of building apis this book is for you building apis that consumers love should certainly be the goal of any api initiative however it is easier said than done it requires getting the architecture for your apis right this book equips you with both foundations and best practices for api architecture this book is for you if you want to understand the big picture of api design and development you want to define an api architecture establish a platform for apis or simply want to build apis your consumers love this book is not for you if you are looking for a step by step guide for building apis focusing on every detail of the correct application of rest principles in this case i recommend the book api design of the api university series what is api architecture architecture spans the bigger picture of apis and can be seen from several perspectives api architecture may refer to the architecture of the complete solution consisting not only of the api itself but also of an api client such as a mobile app and several other components api solution architecture explains the components and their relations within the software solution api architecture may refer to the technical architecture of the api platform when building running and exposing not only one but several apis it becomes clear that certain building blocks of the api runtime functionality and management functionality for the api need to be used over and over again an api platform provides an infrastructure for developing running and managing apis api architecture may refer to the architecture of the api portfolio the api portfolio contains all apis of the enterprise and needs to be managed like a product api portfolio architecture analyzes the functionality of the api and organizes manages and reuses the apis api architecture may refer to the design decisions for a particular api proxy to document the design decisions api description languages are used we explain the use of api description languages raml and swagger on many examples this book covers all of the above perspectives on api architecture however to become useful the architecture needs to be put into practice this is why this book covers an api methodology for design and development an api methodology provides practical guidelines for putting api architecture into practice it explains how to develop an api architecture into an api that consumers love a lot of the information on apis is available on the web most of it is published by vendors of api products i am always a bit suspicious of technical information pushed by product vendors this book is different in this book a product independent view on api architecture is presented the api university series is a modular series of books on api related topics each book focuses on a particular api topic so you can select the topics within apis which are relevant for you

# **Designing Web APIs**

2018-08-29

using a web api to provide services to application developers is one of the more satisfying endeavors that software engineers undertake but building a popular api with a thriving developer ecosystem is also one of the most

challenging with this practical guide developers architects and tech leads will learn how to navigate complex decisions for designing scaling marketing and evolving interoperable apis authors brenda jin saurabh sahni and amir shevat explain api design theory and provide hands on exercises for building your web api and managing its operation in production you ll also learn how to build and maintain a following of app developers this book includes expert advice worksheets checklists and case studies from companies including slack stripe facebook microsoft cloudinary oracle and github get an overview of request response and event driven api design paradigms learn best practices for designing an api that meets the needs of your users use a template to create an api design process scale your web api to support a growing number of api calls and use cases regularly adapt the api to reflect changes to your product or business provide developer resources that include api documentation samples and tools

## Building APIs with Node.js

2016-12-10

learn how to build scalable apis using the node js platform and es6 ecmascript 2015 with this quick informative guide developing systems for the wide range of devices available in the modern world requires the construction of apis designed to work only with data in a centralized manner allowing client side applications to be developed separately and have a unique interface for the final user node js has proven itself to be an excellent platform for building rest apis because of its single thread architecture it has a low learning curve and can be understood by anyone who has a basic understanding of the javascript language use building apis with node js today to understand how node js apis work and how you can build your own what you will learn build scalable apis using the node js platform use es6 express passport apidoc mocha helmet and more integrate an sql database through sequelize js and build a single page application using vanilla js who this book is for ideal for developers who have a basic understanding of javascript and node js

#### **Building an API Product**

2024-01-25

unlock the power of apis with expert guidance and techniques for successfully creating testing and maintaining products that align with customers and stand out in the market key features understand the complete api product lifecycle from planning to implementation release and maintenance design and support api products that distinguish themselves on the market by meeting user needs implement actionable techniques for developing testing and securing a successful api product purchase of the print or kindle book includes a free pdf ebook book descriptionthe exponential increase in the number of apis is evidence of their widespread adoption by companies seeking to deliver value to users across diverse industries making the art of building successful apis an invaluable skill for anyone involved in product development with this comprehensive guide you ll walk through the entire process of planning

designing implementing releasing and maintaining successful api products you ll start by exploring all aspects of apis including their types technologies protocols and lifecycle stages next you ll learn how to define an api strategy and identify business objectives user personas and jobs to be done jtbd with these skills you ll delve into designing and validating api capabilities to create a machine readable api definition as you advance the book helps you understand how to choose the right language and framework for securely releasing an api server and offers insights into analyzing api usage metrics improving performance and creating compelling documentation that users love finally you ll discover ways to support users manage versions and communicate changes or the retirement of an api by the end of this api development book you ll have the confidence and skills to create api products that truly stand out in the market what you will learn master each stage of the api lifecycle discover technologies and protocols employed in building an api product understand the different api design definition and validation techniques generate an api server from a machine readable definition understand how to set up and analyze api monitors familiarize yourself with the different gateways for releasing an api find out how to create an api portal that attracts users gain insights into planning and communicating api retirement to users who this book is for building an api product is a guide for product managers and software developers navigating the world of apis to build programmable products you don t have to be an experienced professional to learn from this book as long as you have basic knowledge of internet technologies and how users interact with a product

#### Build APIs You Won't Hate

2015-08-12

api development is becoming increasingly common for server side developers thanks to the rise of front end javascript frameworks iphone applications and api centric architectures it might seem like grabbing stuff from a data source and shoving it out as json would be easy but surviving changes in business logic database schema updates new features or deprecated endpoints can be a nightmare after finding many of the existing resources for api development to be lacking phil learned a lot of things the hard way through years of trial and error this book aims to condense that experience taking examples and explanations further than the trivial apples and pears nonsense tutorials often provide by passing on some best practices and general good advice you can hit the ground running with api development combined with some horror stories and how they were overcome avoided averted this book will discuss the theory of designing and building apis in any language or framework with this theory applied in php based examples

#### The Design of Web APIs

2019-10-08

summary the design of apis is a practical example packed guide to crafting extraordinary web apis author arnaud lauret demonstrates fantastic design principles and techniques you can apply to both public and private web apis

about the technology an api frees developers to integrate with an application without knowing its code level details whether you re using established standards like rest and openapi or more recent approaches like graphql or grpc mastering api design is a superskill it will make your web facing services easier to consume and your clients internal and external happier about the book drawing on author arnaud lauret s many years of api design experience this book teaches you how to gather requirements how to balance business and technical goals and how to adopt a consumer first mindset it teaches effective practices using numerous interesting examples what s inside characteristics of a well designed api user oriented and real world apis secure apis by design evolving documenting and reviewing api designs about the reader written for developers with minimal experience building and consuming apis about the author a software architect with extensive experience in the banking industry arnaud lauret has spent 10 years using designing and building apis he blogs under the name of api handyman and has created the api stylebook website

#### **Pro RESTful APIs**

2017-03-20

discover the restful technologies including rest json xml jax rs web services soap and more for building today s microservices big data applications and web service applications this book is based on a course the oracle based author is teaching for uc santa cruz silicon valley which covers architecture design best practices and coding labs pro restful apis design gives you all the fundamentals from the top down from the top architecture through the middle design to the bottom coding this book is a must have for any microservices or web services developer building applications and services what you ll learn discover the key restful apis including rest json xml jax soap and more use these for web services and data exchange especially in today s big data context harness xml json rest and jax rs in examples and case studies apply best practices to your solutions architecture who this book is for experienced web programmers and developers

#### Mastering API Architecture

2021-03-19

most organizations with a web presence build and operate apis the doorway for customers to interact with the company s services designing building and managing these critical programs affect everyone in the organization from engineers and product owners to c suite executives but the real challenge for developers and solution architects is creating an api platform from the ground up with this practical book you ll learn strategies for building and testing rest apis that use api gateways to combine offerings at the microservice level authors james gough daniel bryant and matthew auburn demonstrate how simple additions to this infrastructure can help engineers and organizations migrate to the cloud and open the opportunity to connect internal services using technologies like a service mesh learn api fundamentals and architectural patterns for building an api platform use

practical examples to understand how to design build and test api based systems deploy operate and configure key components of an api platform use api gateways and service meshes appropriately based on case studies understand core security and common vulnerabilities in api architecture secure data and apis using threat modeling and technologies like oauth2 and tls learn how to evolve existing systems toward api and cloud based architectures

#### **API Management**

2017-03-17

maximize the impact of your assets and business services by providing apis for developers and other users the journey described in this book starts with identifying business assets as part of the api team you then need to identify and define the requirements of traffic management security mediation and orchestration you also must define metrics for the analytics to measure the success of the overall api program api documentation and the ease of developer onboarding also determine the success of the apis finally monetization of these apis leads to revenue generation for the enterprise author de an expert in building and managing api solutions provides enterprise architects designers and technologists with insight into the world of apis and the various technical aspects of building and managing an effective api management solution api management developing and managing apis for your organization introduces the basics of apis and highlights their value provides an overview of technologies for building an api management solution and defines the requirements including how to build a restful api offers design principles for building developer friendly apis explains how to secure your apis shows how to use api analytics to measure the success of your apis demonstrates how to monetize apis finally api management touches on various technical nuances of creating distributing and managing an api this book will not only help you learn how to design build deploy and manage an api for an enterprise scale but also generate revenue for your organization what you ll learn discover the api life cycle design and develop apis implement api security test your apis deploy and monitor your apis who this book is for enterprise architects technology enthusiasts security architects and operations specialists

#### **Building Data Science Applications with FastAPI**

2021-10-08

get well versed with fastapi features and best practices for testing monitoring and deployment to run high quality and robust data science applications key featurescover the concepts of the fastapi framework including aspects relating to asynchronous programming type hinting and dependency injectiondevelop efficient restful apis for data science with modern pythonbuild test and deploy high performing data science and machine learning systems with fastapibook description fastapi is a web framework for building apis with python 3 6 and its later versions based on standard python type hints with this book you ll be able to create fast and reliable data

science api backends using practical examples this book starts with the basics of the fastapi framework and associated modern python programming language concepts you ll be taken through all the aspects of the framework including its powerful dependency injection system and how you can use it to communicate with databases implement authentication and integrate machine learning models later you ll cover best practices relating to testing and deployment to run a high quality and robust application you ll also be introduced to the extensive ecosystem of python data science packages as you progress you ll learn how to build data science applications in python using fastapi the book also demonstrates how to develop fast and efficient machine learning prediction backends and test them to achieve the best performance finally you ll see how to implement a real time face detection system using websockets and a web browser as a client by the end of this fastapi book you ll have not only learned how to implement python in data science projects but also how to maintain and design them to meet high programming standards with the help of fastapi what you will learnexplore the basics of modern python and async i o programmingget to grips with basic and advanced concepts of the fastapi frameworkimplement a fastapi dependency to efficiently run a machine learning modelintegrate a simple face detection algorithm in a fastapi backendintegrate common python data science libraries in a web backenddeploy a performant and reliable web backend for a data science applicationwho this book is for this python data science book is for data scientists and software developers interested in gaining knowledge of fastapi and its ecosystem to build data science applications basic knowledge of data science and machine learning concepts and how to apply them in python is recommended

# **Building Python Web APIs with FastAPI**

2022-07-29

discover fastapi features and best practices for building and deploying high quality web apis from scratch key features a practical guide to developing production ready web apis rapidly in python learn how to put fastapi into practice by implementing it in real world scenarios explore fastapi its syntax and configurations for deploying applications book description restful web services are commonly used to create apis for web based applications owing to their light weight and high scalability this book will show you how fastapi a high performance web framework for building restful apis in python allows you to build robust web apis that are simple and intuitive and makes it easy to build quickly with very little boilerplate code this book will help you set up a fastapi application in no time and show you how to use fastapi to build a rest api that receives and responds to user requests you ll go on to learn how to handle routing and authentication while working with databases in a fastapi application the book walks you through the four key areas building and using routes for create read update and delete crud operations connecting the application to sql and nosql databases securing the application built and deploying your application locally or to a cloud environment by the end of this book you ll have developed a solid understanding of the fastapi framework and be able to build and deploy robust rest apis what you will learn set up a fastapi application that is fully functional and secure understand how to handle errors from requests and send

proper responses in fastapi integrate and connect your application to a sql and nosql mongodb database perform crud operations using sql and fastapi manage concurrency in fastapi applications implement authentication in a fastapi application deploy a fastapi application to any platform who this book is for this book is for python developers who want to learn fastapi in a pragmatic way to create robust web apis with ease if you are a django or flask developer looking to try something new that s faster more efficient and produces fewer bugs this fastapi python book is for you the book assumes intermediate level knowledge of python programming

#### GraphQL API Design

2018-01-30

want to build apis like facebook since facebook s framework for building apis graphql has become publicly available this ambition seems to be within reach for many companies and that is great but first let s learn what graphql really is and maybe even more importantly let's figure out how to apply graphql to build apis that consumers love do you like to learn hands on in this book we take a hands on approach to learning graphql we first explore the concepts of the two graphql languages using examples then we start writing some code for our first graphql api we develop this api step by step from creating a schema and resolving queries over mocking data and connecting data sources all the way to developing mutations and setting up event subscriptions are your api consumers important to you this book shows you how to apply a consumer oriented design process for graphql apis so you can deliver what your consumers really want an api that solves their problems and offers a great developer experience do you want to enable the api consumers so they can build great apps this book explains the graphql query language which allows the api consumers to retrieve data write data and get notified when data changes more importantly you let them decide which data they really need from the api do you want to make your api easy and intuitive to use this book shows you how to use the graphql schema language to define a type system for your api which serves as a reference documentation and helps your api consumers write queries that are syntactically correct do you want to profit from what has worked for others this book provides a collection of best practices for graphql that have worked for other companies e g regarding pagination authentication and caching rest vs graphql which one is better graphql and rest are competing philosophies for building apis it is not in the scope of this book to compare or discuss the two approaches the focus of this book is on a hands on approach for learning graphql

#### Designing Web APIs with Strapi

2022-02-28

leverage the power of strapi to build self hosted customizable and performant content apis key featuresdiscover how strapi can help you build apis quickly and focus on your products and featureslearn how to put strapi into practice by implementing it in real world scenariosunderstand how to use strapi s powerful features to customize your apisbook description strapi is a node js

based flexible open source headless cms with an integrated admin panel that anyone can use and helps save api development time apis built with strapi can be consumed using rest or graphql from any client with this book you ll take a hands on approach to exploring the capabilities of the strapi platform and creating a custom api from scratch this book will help javascript developers to put their knowledge to work by guiding them through building powerful backend apis you ll see how to effortlessly create content structures that can be customized according to your needs and gain insights into how to write edit and manage your content seamlessly with strapi as you progress through the chapters you ll discover a wide range of strapi features as well as understand how to add complex features to the api such as user authentication data sorting and pagination you ll not only learn how to find and use existing plugins from the open source community but also build your own plugins with custom functionality with the strapi plugin api and add them to the admin panel finally you ll learn how to deploy the api to heroku and aws by the end of this book you ll be able to build powerful scalable and secure apis using strapi what you will learnexplore strapi and understand how it worksdefine content types to build apis quickly and efficientlyunderstand authentication and authorization in strapicreate production ready apis with strapideploy the strapi api to various environments including heroku and awsuse best practices to run the strapi api in productionsync permissions to access the api between multiple environmentswrite basic tests for api utilities as well as the endpointwho this book is for this book is for backend and frontend javascript developers experienced api developers will learn a new fast and flexible way of building apis while frontend developers will be able to take a step toward becoming full stack developers by learning how to leverage strapi for building apis quickly basic knowledge of javascript and rest api concepts is assumed

#### Hands-On RESTful Web Services with Go

2020-02-28

design production ready testable and maintainable restful web services for the modern web that scale easily key featuresemploy a combination of custom and open source solutions for application program interface api developmentdiscover asynchronous api and api security patterns and learn how to deploy your web services to the cloudapply design patterns and techniques to build reactive and scalable web servicesbook description building restful web services can be tough as there are countless standards and ways to develop api in modern architectures such as microservices restful apis are common in communication making idiomatic and scalable api development crucial this book covers basic through to advanced api development concepts and supporting tools you ll start with an introduction to rest api development before moving on to building the essential blocks for working with go you ll explore routers middleware and available open source web development solutions in go to create robust apis and understand the application and database layers to build restful web services you ll learn various data formats like protocol buffers and json and understand how to serve them over http and grpc after covering advanced topics such as asynchronous api design and graphql for building scalable web services you ll discover how

microservices can benefit from rest you ll also explore packaging artifacts in the form of containers and understand how to set up an ideal deployment ecosystem for web services finally you ll cover the provisioning of infrastructure using infrastructure as code iac and secure your rest api by the end of the book you ll have intermediate knowledge of web service development and be able to apply the skills you ve learned in a practical way what you will learnexplore the fundamentals of api development and web servicesunderstand the various building blocks of api development in gouse superior open source solutions for representational state transfer rest api developmentscale a service using microservices and asynchronous design patternsdeliver containerized artifacts to the amazon services aws cloudget to grips with api security and its implementationwho this book is for this book is for all the go developers who are comfortable with the language and seeking to learn rest api development even senior engineers can enjoy this book as it discusses many cutting edge concepts such as building microservices developing api with graphql using protocol buffers asynchronous api design and infrastructure as a code developers who are already familiar with rest concepts and stepping into the go world from other platforms such as python and ruby can also benefit a lot

#### Enterprise API Management

2019-07-23

a strategy and implementation guide for building deploying and managing apis key featurescomprehensive end to end guide to business driven enterprise apisdistills years of experience with api and microservice strategiesprovides detailed guidance on implementing api led architectures in any businessbook description apis are the cornerstone of modern agile enterprise systems they enable access to enterprise services from a wide variety of devices act as a platform for innovation and open completely new revenue streams enterprise api management shows how to define the right architecture implement the right patterns and define the right organization model for business driven apis drawing on his experience of developing api and microservice strategies for some of the world s largest companies luis weir explains how apis deliver value across an enterprise the book explores the architectural decisions implementation patterns and management practices for successful enterprise apis as well as providing clear actionable advice on choosing and executing the right api strategy in your enterprise with a relentless focus on creating business value luis weir reveals an effective method for planning building and running business products and services with apis what you will learncreate api strategies to deliver business valuemonetize apis promoting them through public marketplaces and directories develop api led architectures applying best practice architecture patternschoose between rest graphql and grpc style api architecturesmanage apis and microservices through the complete life cycledeploy apis and business products as well as target operating modelslead product based organizations to embrace devops and focus on delivering business capabilities who this book is for architects developers and technology executives who want to deliver successful api strategies that bring business value

#### API Design Patterns

2021-08-17

a concept rich book on api design patterns deeply engrossing and fun to read sate; sahu honeywell api design patterns lays out a set of design principles for building internal and public facing apis in api design patterns you will learn guiding principles for api patterns fundamentals of resource layout and naming handling data types for any programming language standard methods that ensure predictability field masks for targeted partial updates authentication and validation methods for secure apis collective operations for moving managing and deleting data advanced patterns for special interactions and data transformations api design patterns reveals best practices for building stable user friendly apis these design patterns can be applied to solve common api problems and flexibly altered to fit specific needs hands on examples and relevant cases illustrate patterns for api fundamentals advanced functionalities and uncommon scenarios purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology apis are contracts that define how applications services and components communicate api design patterns provide a shared set of best practices specifications and standards that ensure apis are reliable and simple for other developers this book collects and explains the most important patterns from both the api design community and the experts at google about the book api design patterns lays out a set of principles for building internal and public facing apis google api expert jj geewax presents patterns that ensure your apis are consistent scalable and flexible you ll improve the design of the most common apis plus discover techniques for tricky edge cases precise illustrations relevant examples and detailed scenarios make every pattern clear and easy to understand what s inside guiding principles for api patterns fundamentals of resource layout and naming advanced patterns for special interactions and data transformations a detailed case study on building an api and adding features about the reader for developers building web and internal apis in any language about the author jj geewax is a software engineer at google focusing on google cloud platform api design and real time payment systems he is also the author of manning s google cloud platform in action table of contents part 1 introduction 1 introduction to apis 2 introduction to api design patterns part 2 design principles 3 naming 4 resource scope and hierarchy 5 data types and defaults part 3 fundamentals 6 resource identification 7 standard methods 8 partial updates and retrievals 9 custom methods 10 long running operations 11 rerunnable jobs part 4 resource relationships 12 singleton sub resources 13 cross references 14 association resources 15 add and remove custom methods 16 polymorphism part 5 collective operations 17 copy and move 18 batch operations 19 criteria based deletion 20 anonymous writes 21 pagination 22 filtering 23 importing and exporting part 6 safety and security 24 versioning and compatibility 25 soft deletion 26 request deduplication 27 request validation 28 resource revisions 29 request retrial 30 request authentication

#### Building Web APIs with ASP.NET Core

2023-05-23

create fully featured apis with the asp net core framework this practical guide shows you how to design and implement apis using the rest and graphql standards building apis with asp net core is a practical beginner s guide to creating your first web apis using asp net core in it you ll develop an api that feeds web based services including websites and mobile apps for a board games application structured just like a real world development project each chapter introduces a new feature request you ll build your api with an ecosystem of asp net core tools that help simplify everything from setting up your data model to generating documentation purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications

#### **Building Modern Serverless Web APIs**

2021-06-10

building and hosting microservices without servers using aws lambda key features learn end to end development of microservices using net core and aws lambda learn a new way of hosting the net core api on the aws lambda serverless platform mastering microservices using net core and aws lambda description building modern serverless apis introduces you to the serverless paradigm of the api application its advantages and presents you the modern approach of developing the api the book makes efficient use of aws lambda services to develop efficient scalable and cost effective api solutions the book begins with a quick introduction to microservices its characteristics and current challenges faced in developing and implementing them the book explores core concepts of asp net core and some important aws services that are commonly used to build microservices using aws it explores and provides real hands on microservice patterns and some of the best practices used in designing the serverless architecture furthermore the book covers end to end demonstration of an application where you will learn to develop build deploy and monitor microservices on aws lambda using net core 3 1 by the end of this book you will be proficient in developing microservices with aws lambda and become a self starter to build your own secure microservices what you will learn learn about microservices their characteristics patterns and where to use them understand popular microservice design patterns being used with the serverless architecture learn about the asp net core api and its hosting strategies for building serverless microservices learn about amazon services and the services commonly used to build microservices discover how to configure authorization and authentication to secure microservices in aws learn about aws services available for continuous deployment and integration to deploy microservices who this book is for this book is for a seasoned net developer or aws practitioner who wants to learn about the microservices architecture patterns and how to deploy using aws lambda table of contents 1 microservices its characteristics and challenges 2 introduction to the asp net core api 3 introduction to aws services 4 microservices patterns 5 the serverless paradigm 6 communication patterns and service discovery 7

collaborating between microservices 8 distributed monitoring 9 security 10 continuous integration and deployment 11 aws best practices

# Building AI Applications with ChatGPT APIs

2023-09-21

enhance your application development skills by building a chatgpt clone code bug fixer quiz generator translation app email auto reply powerpoint generator and more in just one read key features become proficient in building ai applications with chatgpt dall e and whisper understand how to select the optimal chatgpt model and fine tune it for your specific use case monetize your applications by integrating the chatgpt api with stripe purchase of the print or kindle book includes a free pdf ebook book descriptioncombining chatgpt apis with python opens doors to building extraordinary ai applications by leveraging these apis you can focus on the application logic and user experience while chatgpt s robust nlp capabilities handle the intricacies of human like text understanding and generation this book is a guide for beginners to master the chatgpt whisper and dall e apis by building ten innovative ai projects these projects offer practical experience in integrating chatgpt with frameworks and tools such as flask django microsoft office apis and pyqt throughout this book you ll get to grips with performing nlp tasks building a chatgpt clone and creating an ai driven code bug fixing saas application you ll also cover speech recognition text to speech functionalities language translation and generation of email replies and powerpoint presentations this book teaches you how to fine tune chatgpt and generate ai art using dall e apis and then offers insights into selling your apps by integrating chatgpt api with stripe with practical examples available on github the book gradually progresses from easy to advanced topics cultivating the expertise required to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of chatgpt apis what you will learn develop a solid foundation in using the chatgpt api for natural language processing tasks build deploy and capitalize on a variety of desktop and saas ai applications seamlessly integrate chatgpt with established frameworks such as flask django and microsoft office apis channel your creativity by integrating dall e apis to produce stunning ai generated art within your desktop applications experience the power of whisper api s speech recognition and text to speech features discover techniques to optimize chatgpt models through the process of fine tuning who this book is for with best practices tips and tricks for building applications using the chatgpt api this book is for programmers entrepreneurs and software enthusiasts python developers interested in ai applications involving chatgpt software developers who want to integrate ai technology and web developers looking to create ai powered web applications with chatgpt will also find this book useful a fundamental understanding of python programming and experience of working with apis will help you make the most of this book

#### Web API Development with ASP.NET Core 8

2024-04-05

develop web api applications using design patterns advanced customization and cutting edge technologies such as signalr grpc and graphgl while leveraging powerful cloud platforms and tools to accelerate development key features gain proficiency in building modern asp net core web api applications develop the skills to effectively test debug and secure your web api applications streamline development workflows and boost productivity with cloud computing platforms and industry standard ci cd tools purchase of the print or kindle book includes a free pdf ebook book descriptionapi applications have become increasingly significant in recent years fueled by the ever accelerating pace of technological advancements however with this rapid evolution comes a pressing challenge the need to create web api applications that are not only functional but also adaptable maintainable and scalable to meet the demands of users and businesses alike this book will help you address this challenge head on equipping you with the knowledge and skills required to develop web api applications from scratch by providing a deeper understanding of the various protocols implemented by asp net core including restful signalr websocket grpc and graphql supplemented by practical examples and optimization techniques such as using middleware testing caching and logging this book offers invaluable insights for both newcomers as well as seasoned developers to meet modern web development requirements additionally you ll discover how to use cloud platforms such as azure and azure devops to enhance the development and operational aspects of your application by the end of the book you ll be fully prepared to undertake enterprise grade web api projects with confidence harnessing the latest advancements in asp net core 8 to drive innovation what you will learn build a strong foundation in web api fundamentals explore the asp net core 8 framework and other industry standard libraries and tools for high performance scalable web apis apply essential software design patterns such as mvc dependency injection and the repository pattern use entity framework core for database operations and complex query creation implement robust security measures to protect against malicious attacks and data breaches deploy your application to the cloud using azure and leverage azure devops to implement ci cd who this book is for this book is for developers who want to learn how to build web apis with asp net core and create flexible maintainable scalable applications with net platform basic knowledge of c net and git will assist with understanding the concepts more easily

## Principles of Web API Design

2021-12-08

the full lifecycle guide to api design principles of api design brings together principles and processes to help you succeed across the entire api design lifecycle drawing on extensive in the trenches experience leading consultant james higginbotham helps you align every stakeholder on specific outcomes design apis that deliver value and scale the design process from small teams to the entire organization higginbotham helps you bring an

outside in perspective to api design to reflect the voices of customers and product teams map requirements to specific and well organized apis and choose the right api style for writing them he walks through a real world example from the ground up offering guidance for anyone designing new apis or extending existing apis deliver great apis by getting your design processes right gain agreement on specific outcomes from design teams customers and other stakeholders craft job stories conduct eventstorming and model capabilities identify the right apis and organize operations into coherent api profiles choose the best styles for each project rest grpc graphql or event based async apis refine designs based on feedback from documenters testers and customers decompose apis into microservices mature your api program implementing design and management processes that scale this guide is invaluable for anyone involved in planning or building apis architects developers team leaders managers in single and multi team environments and any technical or business professional delivering api as a product offerings register your book for convenient access to downloads updates and or corrections as they become available see inside book for details

## Building RESTful Web services with Go

2017-12-28

explore the necessary concepts of rest api development by building few real world services from scratch about this book follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service leverage the gin framework to guickly implement restful endpoints learn to implement a client library for a restful web service using go who this book is for this book is intended for those who want to learn to build restful web services with a framework like gin to make best use of the code samples included in the book you should have a basic knowledge of go programming what you will learn create http handler and introspect the gorilla mux router oauth 2 implementation with go build restful api with gin framework create rest api with mongodb and go build a working client library and unit test for rest api debug test and profile restful apis with each of the frameworks optimize and scale rest api using microservices in detail rest is an architectural style that tackles the challenges of building scalable web services and in today s connected world apis have taken a central role on the web apis provide the fabric through which systems interact and rest has become synonymous with apis the depth breadth and ease of use of go makes it a breeze for developers to work with it to build robust apis this book takes you through the design of restful web services and leverages a framework like gin to implement these services the book starts with a brief introduction to rest api development and how it transformed the modern web you will learn how to handle routing and authentication of web services along with working with middleware for internal service the book explains how to use go frameworks to build restful web services and work with mongodb to create rest api you will learn how to integrate postgres sql and json with a go web service and build a client library in go for consuming rest api you will learn how to scale apis using the microservice architecture and deploy the rest apis using nginx as a proxy server finally you will learn how to metricize a rest api using an api gateway by the end of the book you will be proficient in building restful

apis in go style and approach this book is a step by step hands on guide to designing and building restful web services

# **APIs: A Strategy Guide**

2011-12-17

programmers used to be the only people excited about apis but now a growing number of companies see them as a hot new product channel this concise guide describes the tremendous business potential of apis and demonstrates how you can use them to provide valuable services to clients partners or the public via the internet you ll learn all the steps necessary for building a cohesive api business strategy from experts in the trenches facebook and twitter apis continue to be extremely successful and many other companies find that api demand greatly exceeds website traffic this book offers executives business development teams and other key players a complete roadmap for creating a viable api product learn about the rise of apis and why your business might need one understand the roles of asset owners providers and developers in the api value chain build strategies for designing implementing and marketing your product devise an effective process for security and user management address legal issues such as rights management and terms of use manage traffic and user experience with a reliable operating model determine the metrics you need to measure your api s success

# Continuous API Management

2018-11-14

a lot of work is required to release an api but the effort doesn t always pay off overplanning before an api matures is a wasted investment while underplanning can lead to disaster this practical guide provides maturity models for individual apis and multi api landscapes to help you invest the right human and company resources for the right maturity level at the right time how do you balance the desire for agility and speed with the need for robust and scalable operations four experts from the api academy show software architects program directors and product owners how to maximize the value of their apis by managing them as products through a continuous life cycle learn which api decisions you need to govern and how and where to do so design deploy and manage apis using an api as a product aaap approach examine ten pillars that form the foundation of api product work learn how the continuous improvement model governs changes throughout an api s lifetime explore the five stages of a complete api product life cycle delve into team roles needed to design build and maintain your apis learn how to manage your api landscape the set of apis published by your organization

# **Designing Web APIs**

2018

using a web api to provide services to application developers is one of the more satisfying endeavors that software engineers undertake but building a

popular api with a thriving developer ecosystem is also one of the most challenging with this practical guide developers architects and tech leads will learn how to navigate complex decisions for designing scaling marketing and evolving interoperable apis authors brenda jin saurabh sahni and amir shevat explain api design theory and provide hands on exercises for building your web api and managing its operation in production you ll also learn how to build and maintain a following of app developers this book includes expert advice worksheets checklists and case studies from companies including slack stripe facebook microsoft cloudinary oracle and github get an overview of request response and event driven api design paradigms learn best practices for designing an api that meets the needs of your users use a template to create an api design process scale your web api to support a growing number of api calls and use cases regularly adapt the api to reflect changes to your product or business provide developer resources that include api documentation samples and tools

#### **Business of APIs**

2011-04-28

in recent years api adoption has exploded among developers for reasons that this book will examine but the purpose of this book is not to discuss how to deliver an api but to rather how to scale the business side to meet this rising developer demand written by someone with an engineering and a business background the business of apis also aims to bridge the technical and the business aspects of api development this book serves to help people understand what apis are who uses them and the different types of apis that are available as the title suggests this is a business oriented book nonetheless it does seek to educate users about what types of technologies go into popular apis the book also surveys the history of modern apis and examines how they ve been used successfully if you are considering launching an api this book should help you understand the common stumbling blocks that have been faced by many api owners then hopefully you can avoid them the book will also identify common building blocks used by api owners building blocks that should be fundamental for your api planning and development the business of apis highlights what it takes to be successful in providing quality apis and points to some of the innovative steps new businesses are taking with their apis all in an effort to build vibrant api ecosystems and healthy businesses

#### Building Hypermedia APIs with HTML5 and Node

2011-11-30

with this concise book you ll learn the art of building hypermedia apis that don t simply run on the but that actually exist in the you ll start with the general principles and technologies behind this architectural approach and then dive hands on into three fully functional api examples too many apis rely on concepts rooted in desktop and local area network patterns that don t scale well costly solutions that are difficult to maintain over time this book shows system architects and web developers how to design and implement

human and machine readable web services that remain stable and flexible as they scale learn the h factors for representing application metadata across all media types and formats understand the four basic design elements for authoring hypermedia types convert a simple read only xml based media type into a successful api design examine the challenges and advantages of designing a hypermedia type with json use html5 s rich set of hypermedia controls in the api design process learn the details of documenting publishing and registering media type designs and link relation types

#### Design and Build Great Web APIs

2019-12-05

apis are transforming the business world at an increasing pace gain the essential skills needed to quickly design build and deploy quality web apis that are robust reliable and resilient go from initial design through prototyping and implementation to deployment of mission critical apis for your organization test secure and deploy your api with confidence and avoid the release into production panic tackle just about any api challenge with more than a dozen open source utilities and common programming patterns you can apply right away good api design means starting with the api first principle understanding who is using the api and what they want to do with it and applying basic design skills to match customers needs while solving business critical problems use the sketch design build method to create reliable and scalable web apis quickly and easily without a lot of risk to the day to day business operations create clear sequence diagrams accurate specifications and machine readable api descriptions all reviewed tested and ready to turn into fully functional nodejs code create reliable test collections with postman and implement proper identity and access control security with autho without added cost or risk to the company deploy all of this to heroku using a continuous delivery approach that pushes secure well tested code to your public servers ready for use by both internal and external developers from design to code to test to deployment unlock hidden business value and release stable and scalable web apis that meet customer needs and solve important business problems in a consistent and reliable manner

# Mastering Minimal APIs in ASP.NET Core

2022-10-21

get a practical understanding of how to build lightweight asp net core applications and write cleaner testable and secure apis with net 6 and minimal apis key featuresexplore clear and detailed guidelines to design and develop apis for asp net core appsdiscover expert tips tricks and best practices to build performant apisimplement proven web api development methodologies using net 6 features and toolsbook description the minimal apis feature introduced in net 6 is the answer to code complexity and rising dependencies in creating even the simplest of apis minimal apis facilitate api development using compact code syntax and help you develop web apis quickly this practical guide explores minimal apis end to end and helps you

take advantage of its features and benefits for your asp net core projects the chapters in this book will help you speed up your development process by writing less code and maintaining fewer files using minimal apis you ll also learn how to enable swagger for api documentation along with cors and handle application errors the book even promotes ideas to structure your code in a better way using the dependency injection library in net finally you ll learn about performance and benchmarking improvements for your apps by the end of this book you ll be able to fully leverage new features in net 6 for api development and explore how minimal apis are an evolution over classical web api development in asp net core what you will learnadopt new features in net 6 for building lightweight apisunderstand how to optimize api development with minimal apis in net 6discover best practices for accessing and using data in minimal apisunderstand how to validate incoming data to an api and return error messagesget familiar with dependency injection and logging for identifying errorsleverage the translation system in minimal apis to provide messages and errors in regional languageswho this book is for if you are an existing net developer who wants to develop lightweight apis quickly without much complexity this book is for you if you are a developer who is just getting started with the asp net core framework this book will help you learn web api development using the latest net features the book assumes intermediate level knowledge of c programming visual studio and rest api concepts

# **RESTful API Design**

2016-08-29

looking for best practices for restful apis this book is for you why because this book is packed with practical experience on what works best for restful api design you want to design apis like a pro use api description languages to both design apis and develop apis efficiently the book introduces the two most common api description languages raml openapi and swagger your company cares about its customers learn api product management with a customer centric design and development approach for apis learn how to manage apis as a product and how to follow an api first approach build apis your customers love you want to manage the complete api lifecycle an api development methodology is proposed to guide you through the lifecycle api inception api design api development api publication api evolution and maintenance you want to build apis right this book shows best practices for rest design such as the correct use of resources uris representations content types data formats parameters http status codes and http methods your apis connect to legacy systems the book shows best practices for connecting apis to existing backend systems your apis connect to a mesh of microservices the book shows the principles for designing apis for scalable autonomous microservices you expect lots of traffic on your api the book shows you how to achieve high performance availability and maintainability you want to build apis that last for decades we study api versioning api evolution backward and forward compatibility and show api design patterns for versioning the api university series is a modular series of books on api related topics each book focuses on a particular api topic so you can select the topics within apis which are relevant for you

# Production Ready GraphQL

2020-03-23

while graphql is a technology mainly driven by the needs of clients there is a clear lack of resources on how to build reliable graphql servers over the last few years i helped build and maintain some of the biggest graphql apis out there at both shopify and github during those years i also worked with various companies with their adoption of graphql from my experiences with graphql i ve observed the good the bad and the ugly this led to many talks and blog posts on the subject but still found that teams and individuals willing to use graphql in a pragmatic way lacked the resources to do so this is what lead me to write this book a collection of learnings and good practices when building graphql schemas at scale every language and every graphql implementation does things slightly differently this book is completely language agnostic and instead focuses on concepts and patterns that are achievable no matter how you re building a graphql server think of it as a complete journey of what goes into building a graphql api from design to architectures to implementation and even documentation

## Designing APIs with Swagger and OpenAPI

2022-07-19

follow real world api projects from concept to production and learn hands on how to describe and design apis using openapi in designing apis with swagger and openapi you will learn how to understand openapi syntax and structure use swagger and other tooling to create openapi definitions design authentication and authorization turn an openapi description into online documentation automate processes and generating code iterate an api design with user stories build a frontend against a mock server generate backend code with swagger codegen versioning an api and dodging breaking changes work with cross functional teams designing apis with swagger and openapi is a comprehensive guide to designing and describing your first restful api using the most widely adopted standards following expert instruction from swagger core contributor josh ponelat and api consultant lukas rosenstock you ll spend each chapter progressively expanding the kind of apis you ll want to build in the real world you ll utilize openapi and swagger to help automate your workflow and free up your time to work on more exciting features learn the syntax and structure of openapi definitions create and iterate on an api design with common tools and release your api to the public about the technology create web apis that customers and developers will love using swagger a collection of tools for defining and documenting rest apis you will build safe controlled access to your software and because swagger implements the vendor neutral openapi specification you ll be building to the same standards adopted by google microsoft and amazon about the book designing apis with swagger and openapi introduces a design first approach written for developers new to api design it follows the lifecycle of an api project from concept to production you ll explore the dos and don ts of apis through progressively complete examples you ll get hands on experience designing apis for specific business needs using open source tools to generate documentation and building developer friendly components like mocks and client sdks what s inside openapi syntax and structure using swagger to create openapi definitions automating processes and generating code working with cross functional teams about the reader for web developers no prior knowledge of swagger or openapi required about the author josh ponelat is the swagger open source lead at smartbear lukas rosenstock is an independent software developer and api consultant

#### **Undisturbed REST**

2015-05-07

believe it or not building an api is the easy part what is far more challenging is to put together a design that will stand the test of time while also meeting your developers needs after all no matter how well written your code may be without a strong foundation you will find your api quickly failing undisturbed rest works to tackle this issue through the use of modern design techniques and technology showing how to carefully design your api with your users and longevity in mind taking advantage of a design first approach while incorporating best practices and hard lessons learned after reading undisturbed rest you ll have a strong understanding of apis best practices and available tooling for designing prototyping sharing documenting and generating tooling such as sdks around your api more importantly you ll be equipped to design and build an api not just for today but one that can stand the test of time and lead your application into tomorrow

# Beginning API Development with Node.js

2018-07-24

using the same framework to build both server and client side applications saves you time and money this book teaches you how you can use javascript and node js to build highly scalable apis that work well with lightweight cross platform client applications it begins with the basics of node js in the context of backend development and

# PHP Web Services

2016-01-06

whether you re sharing data between two internal systems or building an api so that users can access their data this practical guide has everything you need to build apis with php author lorna jane mitchell provides lots of hands on code samples real world examples and advice based on her extensive experience to guide you through the process from the underlying theory to methods for making your service robust you ll learn how to use this language to work with json xml and other web service technologies this updated second edition includes new tools and features that reflect php updates and changes on the explore http from the request response cycle to its verbs headers and cookies work with and publish webhooks user defined http callbacks determine whether json or xml is the best data format for your application get advice

for working with rpc soap and restful services use several tools and techniques for debugging http web services choose the service that works best for your application and learn how to make it robust document your api and learn how to design it to handle errors

## Modern API Design with ASP.NET Core 2

2018-03-07

use asp net core 2 to create durable and cross platform web apis through a series of applied practical scenarios examples in this book help you build apis that are fast and scalable you ll progress from the basics of the framework through to solving the complex problems encountered in implementing secure restful services the book is packed full of examples showing how microsoft s ground up rewrite of asp net core 2 enables native cross platform applications that are fast and modular allowing your cloud ready server applications to scale as your business grows major topics covered in the book include the fundamentals and core concepts of asp net core 2 you ll learn about building restful apis with the mvc pattern using proven best practices and following the six principles of rest examples in the book help in learning to develop world class web apis and applications that can run on any platform including windows linux and macos you can even deploy to microsoft azure and automate your delivery by implementing continuous integration and continuous deployment pipelines what you will learn incorporate automated api tooling such as swagger from the openapi specification standardize query and response formats using facebook s graphql query language implement security by applying authentication and authorization using asp net identity ensure the safe storage of sensitive data using the data protection stack create unit and integration tests to guarantee code quality who this book is for developers who build server applications such as web sites and web apis that need to run fast and cross platform programmers who want to implement practical solutions for real world problems those who want in depth knowledge of the latest bits of asp net core 2 0

# **Defending APIs**

2024-02-09

get up to speed with api security using this comprehensive guide full of best practices for building safer and secure apis key features develop a profound understanding of the inner workings of apis with a sharp focus on security learn the tools and techniques employed by api security testers and hackers establishing your own hacking laboratory master the art of building robust apis with shift left and shield right approaches spanning the api lifecycle purchase of the print or kindle book includes a free pdf ebook book descriptionalong with the exponential growth of api adoption comes a rise in security concerns about their implementation and inherent vulnerabilities for those seeking comprehensive insights into building deploying and managing apis as the first line of cyber defense this book offers invaluable guidance written by a seasoned devsecops expert defending apis addresses the imperative task of api security with innovative approaches and techniques

designed to combat api specific safety challenges the initial chapters are dedicated to api building blocks hacking apis by exploiting vulnerabilities and case studies of recent breaches while the subsequent sections of the book focus on building the skills necessary for securing apis in real world scenarios guided by clear step by step instructions you ll explore offensive techniques for testing vulnerabilities attacking and exploiting apis transitioning to defensive techniques the book equips you with effective methods to guard against common attacks there are plenty of case studies peppered throughout the book to help you apply the techniques you re learning in practice complemented by in depth insights and a wealth of best practices for building better apis from the ground up by the end of this book you ll have the expertise to develop secure apis and test them against various cyber threats targeting apis what you will learn explore the core elements of apis and their collaborative role in api development understand the owasp api security top 10 dissecting the root causes of api vulnerabilities obtain insights into high profile api security breaches with practical examples and in depth analysis use api attacking techniques adversaries use to attack apis to enhance your defensive strategies employ shield right security approaches such as api gateways and firewalls defend against common api vulnerabilities across several frameworks and languages such as net python and java who this book is for this book is for application security engineers blue teamers and security professionals looking forward to building an application security program targeting api security for red teamers and pentesters it provides insights into exploiting api vulnerabilities api developers will benefit understanding anticipating and defending against potential threats and attacks on their apis while basic knowledge of software and security is required to understand the attack vectors and defensive techniques explained in the book a thorough understanding of api security is all you need to get started

# **Building Polyfills**

2014-02-18

add custom features to browsers old and new by writing polyfill libraries javascript plugins that take browsers beyond their native capabilities in this practical fieldbook author brandon satrom introduces principles and guidelines for polyfill development and then walks you through the steps for building a complex real world html5 polyfill you ll also explore the future of polyfilling or prollyfilling that will enable you to test and work with emerging concepts often ahead of browser vendors by the time you finish this book you ll have the tools and hands on experience you need to build reliable polyfills for today s and tomorrow s learn the current state of polyfills including shims opt ins and drop ins use principles and practices to build responsible polyfills that benefit the entire web development community build out several features for an html5 forms polyfill library configure a build environment and run automated cross browser testing optimize performance handle edge cases and fine tune the speed of your polyfill get examples of prollyfilling libraries that push the boundaries of the write a sample prollyfill and compare it to current polyfill builds

## **Building Web APIs with ASP.NET Core**

2023-07-11

build fully featured apis with asp net core this all practical guide is written like a real development project taking you hands on with modern apis utilizing rest and graphql standards in building apis with asp net core you will learn how to set up your environment with vs 2022 node git and more create a asp net core project from scratch integrate with sql server use entity framework core to set up a data model create back end controllers design an api to serve data write api documentation using swagger and swashbuckle consume an api using typical web client side frameworks handle requests and routes using controllers and minimal api release and deploy your api in production on cloud based hosting services such as ms azure building apis with asp net core is a practical beginner s guide to creating your first web apis using asp net core in it you ll develop an api that feeds web based services including websites and mobile apps for a board games application the book is cleverly structured to mirror a real world development project with each chapter introducing a new feature request you ll build your api with an ecosystem of asp net core tools that help simplify everything from setting up your data model to generating documentation about the technology apis are the front door to an application providing controlled access to its data and features asp net core microsoft s web framework simplifies and accelerates api creation with powerful developer friendly features including an innovative no compile coding experience it is reliable fast free open source and backed by microsoft s legendary support about the book building apis with asp net core teaches you how to write safe maintainable and performant rest apis it s full of best practices for modern and classic api styles including rest and graphql you ll love the groundbreaking minimal api model that helps you build pro quality apis with just a few lines of code each chapter contains realistic user stories backlog items and development tasks what s inside create an asp net core project from scratch set up a data model with entity framework core create backend controllers design an api to serve data about the reader for developers with some experience using the net framework about the author valerio de sanctis has more than 20 years of experience in web development and project management using asp net php and java table of contents part 1 getting started 1 apis at a glance 2 our first web api project 3 restful principles and guidelines part 2 basic concepts 4 working with data 5 crud operations 6 data validation and error handling part 3 advanced concepts 7 application logging 8 caching techniques 9 authentication and authorization 10 beyond rest part 4 toward production 11 api documentation 12 release and deployment

## Building REST APIs with Flask

2019-09-12

develop restful web services using the flask micro framework and integrate them using mysql use flask to develop deploy and manage rest apis with easy to read and understand python code solve your problem from a choice of libraries learn to use mysql as the web services database for your flask api

using sqlalchemy orm building rest apis with flask provides a primer on flask restful services and working with pip to set up your virtual environment the key differences between nosql and sql are covered and you are taught how to connect mysql and flask using sqlalchemy author kunal relan presents best practices for creating rest apis and guides you in structuring your app and testing rest endpoints he teaches you how to set up authentication and render html using views you learn how to write unit tests for your rest apis and understand mocks assertions and integration testing you will know how to document your rest apis deploy your flask application on all of the major cloud platforms and debug and monitor your flask application what you ll learnuse mysql to create flask rest apis test rest endpoints create crud endpoints with flask and mysql deploy flask on all of the major cloud platforms monitor your flask application who this book is for python developers interested in rest api development using flask and web developers with basic programming knowledge who want to learn how python and rest apis work together readers should be familiar with python command line or at least pip and mysql

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