
Pro Restful Apis Springer

Building REST APIs with Flask
 Spring REST
 Unity Networking Fundamentals
 REST API Development with Node.js
 Patterns for API Design
 Perspectives on Web Services
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 Technological Developments in Industry 4.0 for Business Applications
 Practical API Design
 Beginning Google Maps API 3
 Hands-On RESTful API Design Patterns and Best Practices
 Product Management Essentials

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Building REST APIs with Flask Apress
 Contains everything that a project team needs to know about the development and deployment of Web services with the IBM WebSphere product family. Includes examples for all development artifacts in a format that can be reused in the reader's project. The text combines the authors' own practical experiences with consolidated information on the latest product capabilities in a unique approach that allows the book to be easily accessible to a broad spectrum of readers. Finding a balance between a euphoric/optimistic and down-to-earth/realistic view on the subject, this book should sit on every Web service developer's bookshelf.

Spring REST Springer

Pro REST API Development with Node.js is your guide to managing and understanding the full capabilities of successful REST development. API design is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This book will provide a brief background on REST and the tools it provides (well known and not so well known). Understand how there is more to REST than just JSON and URLs. You will then cover and compare the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you

will code an example API from start to finish, using a subset of the tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today.

Unity Networking Fundamentals IGI Global
 ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices. Everything from JavaScript libraries to RIA plugins, RFID readers to smart phones can consume your services using platform-agnostic HTTP. With such wide accessibility, securing your code effectively needs to be a top priority. You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than they once were in this new environment, proving themselves cumbersome and limited in terms of the standards they can work with. Fortunately, ASP.NET Web API provides a simple, robust security solution of its own that fits neatly within the ASP.NET MVC programming model and secures your code without the need for SOAP, meaning that there is no limit to the range of devices that it can work with - if it can understand HTTP, then it can be secured by Web API. These SOAP-less security techniques are the focus of this book. *REST API Development with Node.js*

Apress

This book aims to provide an international forum for scholarly researchers, practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

Patterns for API Design Springer Nature

This two-volume set LNCS 335 and 336 constitutes the post-conference proceedings of the 16th International Conference on Security and Privacy in Communication Networks, SecureComm 2020, held in Washington, DC, USA, in October 2020. The conference was held virtually due to COVID-19 pandemic. The 60 full papers were carefully reviewed and selected from 120 submissions. The

papers focus on the latest scientific research results in security and privacy in wired, mobile, hybrid and ad hoc networks, in IoT technologies, in cyber-physical systems, in next-generation communication systems in web and systems security and in pervasive and ubiquitous computing.

Perspectives on Web Services Springer Science & Business Media

Spring REST is a practical guide for designing and developing RESTful APIs using the Spring Framework. This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

Advances in Information and Communication Apress

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.

Automated Machine Learning Springer Nature

This book is about the next generation of the Google Maps API. It will provide the reader with the skills and knowledge necessary to incorporate Google Maps version 3 on web pages in both desktop and mobile browsers. It also describes how to deal with common problems that most map developers encounter at some point, like performance and usability issues with having too many markers and possible solutions to that. Introduction to the Google Maps API version 3 Solutions to common problems most developers encounters (too many markers, common JavaScript pitfalls) Best practices using HTML/CSS/JavaScript and Google Maps

THE NUCLEAR MANY-BODY PROBLEM

Springer

This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

Security and Privacy in Communication Networks Springer Nature

This revised new edition containing numerous new and heavily updated chapters provides readers with the essential information needed to understand the central topics of terminology in healthcare, the understanding of which is an asset to be leveraged in care and research. Twenty-five years ago the notion that terminology should be concept-based was all but unknown in healthcare; now almost all important terminologies are at least partly concept-based. With no general model of what a terminology was or should be, there were no tools to support terminology development and maintenance. Steady progress since then has improved both terminology content and the technology and processes used to sustain that content. This new edition uses real world examples from the health sector to delineate the principal issues and solutions for the field of data representation. It includes a history of terminologies and in particular their use in healthcare, including inter-enterprise clinical and research data aggregation. Terminology, Ontology and their Implementations covers the basis, authoring and use of ontologies and reference terminologies including the formalisms needed to use them safely. The editor and his team of carefully chosen contributors exhaustively reviews the field of concept-based indexing and provides readers with an understanding of natural language processing and its application to health terminologies. The book discusses terminology services and the architecture for terminological servers and consequently serves as the basis for study for all students of health informatics. Microservices Apress This book constitutes the refereed proceedings of the 18th International Conference on Software Engineering and Formal Methods, SEFM 2020, held in Amsterdam, The Netherlands, in September 2020. The 16 full papers presented together with 1 keynote talk and an abstract of a keynote talk were carefully reviewed and selected from 58 submissions. The papers cover a large variety of topics, including testing, formal verification, program analysis, runtime verification, meta-programming and software development and evolution. The papers address a wide range of systems, such as IoT systems, human-robot interaction in healthcare scenarios, navigation of maritime autonomous systems, and operating systems. The Chapters "Multi-Purpose Syntax Definition with SDF3", "FRed: Conditional Model

Checking via Reducers and Folders" and "Difference Verification with Conditions" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

ESSENTIAL SOFTWARE ARCHITECTURE

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Manage and understand the full capabilities of successful REST development. REST API development is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This completely updated second edition provides a brief background on REST and the tools it provides (well known and not so well known), then explains how there is more to REST than just JSON and URLs. You will learn about the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you will code an example API from start to finish, using a subset of the tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today. What You'll Learn Understand how REST and API development mix up with Node.js Create a scalable, technology agnostic, and uniform interface Prepare your services to be consumed by your clients Test and deploy your API Review troubleshooting techniques Who This Book Is For Any Node.js developer who wants to fully understand REST API development. Beginner and Intermediate Node.js developers who are looking to fully understand how to create RESTful microservices.

MODERN IOT ONBOARDING PLATFORMS FOR ADVANCED APPLICATIONS

Apress

Go beyond the basics of Rust and build web and serverless cloud applications. The applications explained in this practical book include web sites, RESTful APIs, a real-time web chat application, and frontend application with WebAssembly. Each chapter is organized in the following format: what this kind of application looks like; requirements for the example program; an introduction to the Rust libraries used; step-by-step implementation of the example program,

including common pitfalls and best practices; and a brief comparison of libraries and frameworks in the same domain. This book will open your eyes to the world of practical web applications of Rust. After reading the book, you will be able to apply your Rust knowledge to build your own web projects. What You Will Learn Build dynamic websites with databases Build RESTful APIs Write a WebSocket server that can power a real-time chat app in Rust Discover the benefits of serverless computing using Amazon Web Service's Rust support Compile Rust to WebAssembly for high-performance frontend applications Who This Book Is For A reader with basic Rust knowledge, wishing to learn more about how to apply Rust in a real-world scenario. A developer who is evaluating the possibility to build their next project in Rust.

Terminology, Ontology and their Implementations Apress

Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

Technological Developments in Industry 4.0 for Business Applications

Addison-Wesley Professional

This is an open access book. The book starts with an introductory IoT overview related to its selected scope of applications. There is no doubt that digitalization solutions from Industry 4.0 and the Internet of Things (IoT) can be perceived as excellent candidate strategies capable of handling the above-

stated issues concerning measurements and transparency. However, IoT tools themselves can provide appropriate data only, while their efficient integration and application are possible using a dedicated onboarding platform only. To settle this issue, the book undertakes the problem of modern IoT onboarding platforms for the advanced applications pertaining to manufacturing and logistics. In particular, instead of deliberating about a possible hypothetic platforms, an existing and efficient one is employed, which is called KIS.ME. KIS.ME (Keep It Simple. Manage Everything) is a complete IoT solution for a simple integration in manufacturing and logistics. It is composed of a set of hardware devices (KIS.BOX, KIS.IO and KIS.LIGHT), which are intuitively integrated with the cloud platform called KIS.MANAGER. Moreover, the entire platform is an open one, and hence, it enables communication with external services using KIS.API architecture. The application range of KIS.ME is extensive. This is due to the intuitive implementation and visualization of a user-defined key performance indicators (KPIs), which constitute effective optimization measures. Thus, the potential areas of application of KIS.ME are, e.g., manufacturing, warehouse management and logistics. Indeed, triggering and/or ordering various tasks can be immediately and efficiently implemented with KIS.ME. Such an approach translates directly to the savings of the time and energy. Subsequently, a gradual introduction to KIS.ME platform is presented, which constitutes the base for further advanced applications including logistics, control and maintenance of various processes. Finally, the potential of KIS.API communication framework is utilized for an efficient communication with external services. Practical API Design "O'Reilly Media, Inc." Proven Patterns for Designing Evolvable High-Quality APIs--For Any Domain, Technology, or Platform APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds. To create user-friendly, reliable and well-performing APIs, architects, designers, and developers need expert design guidance. This practical guide cuts through the complexity of API conversations and their message contents, introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly, for whatever technologies or platforms you use. In Patterns for API Design: Simplifying Integration with Loosely Coupled Message Exchanges, five expert architects and developers cover the entire API lifecycle,

from launching projects and establishing goals through defining requirements, elaborating designs, planning evolution, and creating useful documentation. They crystallize the collective knowledge of many practitioners into 44 API design patterns, consistently explained with context, pros and cons, conceptual solutions, and concrete examples. To make their pattern language accessible, they present a domain model, a running case study, decision narratives with pattern selection options and criteria, and walkthroughs of real-world projects applying the patterns in two different industries. Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real-world problems and make the right tradeoffs "This book provides a healthy mix of theory and practice, containing numerous nuggets of deep advice but never losing the big picture . . . grounded in real-world experience and documented with academic rigor applied and practitioner community feedback incorporated. I am confident that [it] will serve the community well, today and tomorrow." --Prof. Dr. Dr. h. c. Frank Leymann, Managing Director, Institute of Architecture of Application Systems, University of Stuttgart

Beginning Google Maps API 3 Apress
Build effective RESTful APIs for enterprise with design patterns and REST framework's out-of-the-box capabilities
Key Features Understand advanced topics such as API gateways, API securities, and cloud Implement patterns programmatically with easy-to-follow examples Modernize legacy codebase using API connectors, layers, and microservices
Book Description This book deals with the Representational State Transfer (REST) paradigm, which is an architectural style that allows networked devices to communicate with each other over the internet. With the help of this book, you'll explore the concepts of service-oriented architecture (SOA), event-driven architecture (EDA), and resource-oriented architecture (ROA). This book covers why there is an insistence for high-quality APIs toward enterprise integration. It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs. You'll also understand how application delivery and deployments can be simplified and

streamlined in the REST world. The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications. Besides detailing the API design and development aspects, this book will assist you in designing and developing production-ready, testable, sustainable, and enterprise-grade APIs. By the end of the book, you'll be empowered with all that you need to create highly flexible APIs for next-generation RESTful services and applications. What you will learn Explore RESTful concepts, including URI, HATEOAS, and Code on Demand Study core patterns like Statelessness, Pagination, and Discoverability Optimize endpoints for linked microservices with API gateways Delve into API authentication, authorization, and API security implementations Work with Service Orchestration to craft composite and process-aware services Expose RESTful protocol-based APIs for cloud computing Who this book is for This book is primarily for web, mobile, and cloud services developers, architects, and consultants who want to build well-designed APIs for creating and sustaining enterprise-class applications. You'll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips.

Hands-On RESTful API Design Patterns and Best Practices Springer Nature
Job titles like "Technical Architect" and "Chief Architect" nowadays abound in software industry, yet many people suspect that "architecture" is one of the most overused and least understood terms in professional software development. Gorton's book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world

example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

Product Management Essentials Springer Nature
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 Learn Use 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.

Pro ASP.NET Web API Security Apress
Philosophers have warned of the perils of a life spent without reflection, but what constitutes reflective inquiry - and why it's necessary in our lives - can be an elusive concept. Synthesizing ideas from minds as diverse as John Dewey and Paulo Freire, the *Handbook of Reflection and Reflective Inquiry* presents reflective thought in its most vital aspects, not as a fanciful or nostalgic exercise, but as a powerful means of seeing familiar events anew, encouraging critical thinking and crucial insight, teaching and learning. In its opening pages, two seasoned educators, Maxine Greene and Lee Shulman, discuss reflective inquiry as a form of active attention (Thoreau's "wide-awakeness"),

an act of consciousness, and a process by which people can understand themselves, their work (particularly in the form of life projects), and others. Building on this foundation, the Handbook analyzes through the work of 40 internationally oriented authors: - Definitional issues concerning reflection, what it is and is not; - Worldwide social and moral conditions

contributing to the growing interest in reflective inquiry in professional education; - Reflection as promoted across professional educational domains, including K-12 education, teacher education, occupational therapy, and the law; - Methods of facilitating and scaffolding reflective engagement; - Current pedagogical and research

practices in reflection; - Approaches to assessing reflective inquiry. Educators across the professions as well as adult educators, counselors and psychologists, and curriculum developers concerned with adult learning will find the Handbook of Reflection and Reflective Inquiry an invaluable teaching tool for challenging times.

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