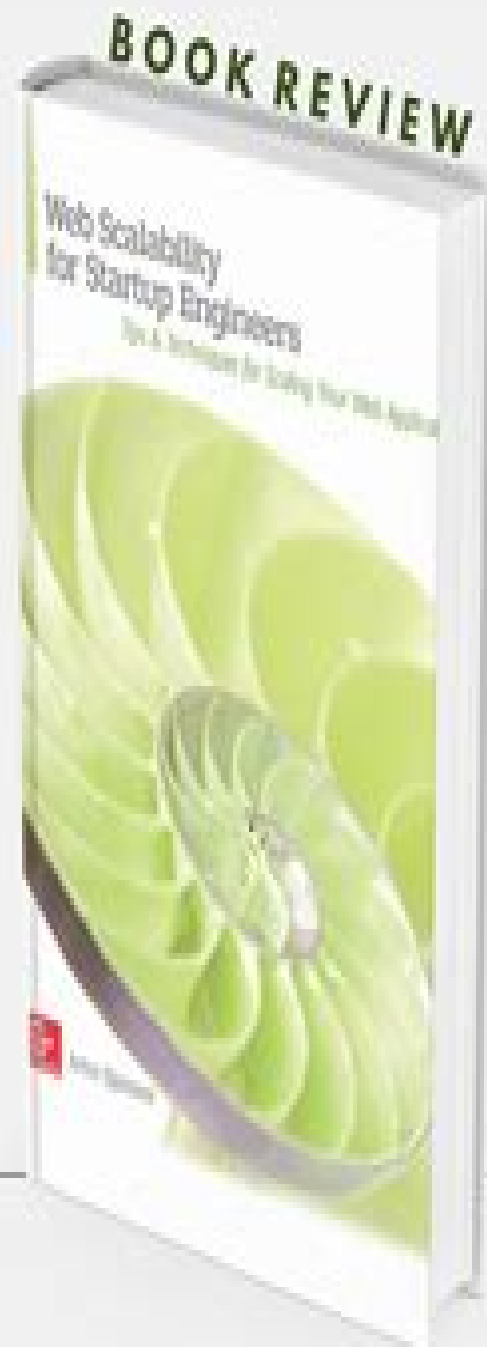


TIPS & TECHNIQUES FOR SCALING YOUR WEB APPLICATION

Web Scalability for Startup Engineers

Author: Artur Ejsmont | Reviewed by: Derek Chio



Web Scalability For Startup Engineers

Artur Ejsmont



Web Scalability For Startup Engineers:

Web Scalability for Startup Engineers Artur Ejsmont, 2015-07-03 This invaluable roadmap for startup engineers reveals how to successfully handle web application scalability challenges to meet increasing product and traffic demands. Web Scalability for Startup Engineers shows engineers working at startups and small companies how to plan and implement a comprehensive scalability strategy. It presents a broad and holistic view of infrastructure and architecture of a scalable web application. Successful startups often face the challenge of scalability and the core concepts driving a scalable architecture are language and platform agnostic. The book covers scalability of HTTP based systems, websites, REST APIs, SaaS and mobile application backends, starting with a high level perspective before taking a deep dive into common challenges and issues. This approach builds a holistic view of the problem, helping you see the big picture and then introduces different technologies and best practices for solving the problem at hand. The book is enriched with the author's real world experience and expert advice, saving you precious time and effort by learning from others' mistakes and successes. Language agnostic approach addresses universally challenging concepts in Web development. Scalability does not require knowledge of a particular language. Fills the gap for engineers in startups and smaller companies who have limited means for getting to the next level in terms of accomplishing scalability. Strategies presented help to decrease time to market and increase the efficiency of web applications.

Acing the System Design Interview Zhiyong Tan, 2024-01-30 Ace the toughest system design interview questions and land the job and salary you want. For software engineers, software architects and engineering managers looking to advance their careers. Acing the System Design Interview tackles the hardest part of the software engineering hiring process: the system design interview. Never fear. In this book, Zhiyong Tan reveals his unique system design interview techniques that have earned him job offers from Amazon, Apple, PayPal and Uber. The book goes well beyond typical soft skills. You will master a structured and organised approach to present system design ideas like Scaling databases to support heavy traffic, Distributed transactions techniques to ensure data consistency, Services for functional partitioning such as API gateway, service mesh and metadata, Common API paradigms including REST, RPC and GraphQL, Caching strategies including their tradeoffs, Logging, monitoring and alerting concepts that are critical in any system design, Communication skills that demonstrate your engineering maturity. The interview's open ended nature often makes nailing it more art than science and notoriously difficult to prepare for. With this book, you will dive deep into the common technical topics that arise during interviews, learning how to apply them to mentally perfect different kinds of systems. About the technology. Any senior role in software engineering will include system design interviews in the hiring process. Built around open ended questions with no standard answer, these interviews test how well you understand the design of complex systems. You will need to demonstrate that you can balance trade offs to design a system that both meets current requirements and is flexible to future modifications and extensions, all in a 50 minute interview.

System Design: пережить интервью Чжиюн Тань, 2025-06-11

whiteboard Amazon Apple ByteDance PayPal Uber System design The Art of Scalability Martin L. Abbott, Michael T. Fisher, 2009-12-15 A Comprehensive Proven Approach to IT Scalability from Two Veteran Software Technology and Business Executives In The Art of Scalability AKF Partners cofounders Martin L Abbott and Michael T Fisher cover everything IT and business leaders must know to build technology infrastructures that can scale smoothly to meet any business requirement Drawing on their unparalleled experience managing some of the world s highest transaction volume Web sites the authors provide detailed models and best practice approaches available in no other book Unlike previous books on scalability The Art of Scalability doesn t limit its coverage to technology Writing for both technical and nontechnical decision makers this book covers everything that impacts scalability including architecture processes people and organizations Throughout the authors address a broad spectrum of real world challenges from performance testing to IT governance Using their tools and guidance organizations can systematically overcome obstacles to scalability and achieve unprecedented levels of technical and business performance Coverage includes Staffing the scalable organization essential organizational management and leadership skills for technical leaders Building processes for scale process lessons from hyper growth companies from technical issue resolution to crisis management Making better build versus buy decisions Architecting scalable solutions powerful proprietary models for identifying scalability needs and choosing the best approaches to meet them Optimizing performance through caching application and database splitting and asynchronous design Scalability techniques for emerging technologies including clouds and grids Planning for rapid data growth and new data centers Evolving monitoring strategies to tightly align with customer requirements The Web Startup Success Guide Robert Walsh, 2009-12-08 If there s a software startup company in your developer heart this is the book that will make it happen The Web Startup Success Guide is your one stop shop for all of the answers you need today to build a successful web startup in these challenging economic times It covers everything from making the strategic platform decisions as to what kind of software to build to understanding and winning the Angel and venture capital funding game to the modern tools apps and services that can cut months off development and marketing cycles to how startups today are using social networks like Twitter and Facebook to create real excitement and connect to real customers Bob Walsh author of the landmark Micro ISV From Vision to Reality digs deep into the definition financing community building platform options and productivity challenges of building a successful and profitable web application today *Um Pequeno Monolito Não é um Microsserviços: Microsserviços* David Azevedo, 2023-12-01 O livro Um Pequeno Monolito Não é um Microsserviços oferece uma abordagem crítica e esclarecedora sobre os princípios fundamentais dos microsserviços no cenário do desenvolvimento de software Escrito por David Azevedo um experiente Arquiteto de Software e especialista em Desenvolvimento de Software o livro desmistifica a ideia de que simplesmente dividir uma aplicação em partes menores resulta automaticamente em microsserviços eficazes Através de uma exploração abrangente e prática ele destaca as complexidades envolvidas na transição de monolitos para microsserviços Ele

analisa detalhadamente os aspectos cruciais como independência, comunicação, escalabilidade e gerenciamento que diferenciam os microsserviços de abordagens tradicionais. Com exemplos reais e insights técnicos, o autor compartilha sua vasta experiência em engenharia de software, arquitetura corporativa, soluções tecnológicas e muito mais. O livro oferece uma visão profunda sobre como projetar e implementar microsserviços eficazmente, além de explorar os desafios e benefícios associados a essa abordagem. Ao abordar as nuances dos microsserviços, este livro é uma leitura indispensável para profissionais de tecnologia, desenvolvedores, arquitetos e todos os interessados em compreender melhor como essa abordagem inovadora pode revolucionar o desenvolvimento de software moderno. Com uma visão perspicaz, o autor nos leva a repensar a maneira como enxergamos os microsserviços e a adotá-los de forma mais informada e bem-sucedida em nossos projetos.

Scalability

Rules Martin L. Abbott, Michael T. Fisher, 2016-08-25 Fully updated Fifty Powerful Easy to Use Rules for Supporting Hyper Growth Whether you're taking on a role as a technology leader in a new company or you simply want to make great technology decisions Scalability Rules will be the go-to resource on your bookshelf Chad Dickerson CTO Etsy Scalability Rules Second Edition is the easy to use scalability primer and reference for every architect, developer, network software engineer, web professional and manager. Authors Martin L. Abbott and Michael T. Fisher have helped scale hundreds of high growth companies and thousands of systems. Drawing on their immense experience, they present 50 up-to-the-minute technical best practices for supporting hyper growth practically anywhere. Fully updated to reflect new technical trends and experiences, this edition is even easier to read, understand and apply. Abbott and Fisher have also added powerful stories behind the rules, actual experiences and case studies from CTOs and technology executives at Etsy, NASDAQ, Salesforce, Shutterfly, Chegg, Warby Parker, Twitter and other scalability pioneers. Architects will find powerful, technology-agnostic insights for creating and evaluating designs. Developers will discover specific techniques for handling everything from databases to state. Managers will get invaluable help in setting goals, making decisions and interacting with technical teams. Whatever your role, you'll find practical risk/benefit guidance for setting priorities, translating plans into action and gaining maximum scalability at minimum cost. You'll learn how to simplify architectures and avoid over-engineering. Design scale into your solution so you can scale on a just-in-time basis. Make the most of cloning and replication. Separate functionality and split data sets. Scale out, not up. Get more out of databases without compromising scalability. Eliminate unnecessary redirects and redundant double-checking. Use caches and CDNs more aggressively without unacceptable complexity. Design for fault tolerance, graceful failure and easy rollback. Emphasize statelessness and efficiently handle state when you must. Effectively utilize asynchronous communication. Learn from your own mistakes and others' high-profile failures. Prioritize your actions to get the biggest bang for the buck.

Managing Web-Enabled Technologies in Organizations: A Global Perspective

Khosrow-Pour, D.B.A., Mehdi, 1999-07-01 Technological advancements of the past several decades in computer and telecommunication technologies have had a profound impact upon the fundamental structures of society and particularly

upon organizations As these technologies have matured and developed many organizations have been looking into the organizational and managerial changes that can be made that allow the organization to achieve greater utilization of these technologies to improve their competitive postures Web enabled technologies have become a serious contender Many global organizations are looking into the emerging web enabled technologies to make their dispersed operations around the world more efficient and maintaining greater control over their resources Those organizations that have not attempted to identify and master the many applications of web enabled technologies will have serious difficulty competing and surviving This book gives you the latest research findings writings related to the web enabled technologies utilization and management in organizations throughout the world

Marko for Scalable Web Applications William Smith,2025-08-19 Marko for Scalable Web Applications Marko for Scalable Web Applications presents a definitive guide to building high performance maintainable web applications with the Marko framework Beginning with first principles the book thoroughly explains Marko s design motivations architectural philosophy and core reactivity model offering readers deep insights into its marko syntax component lifecycle management and virtual DOM optimizations Each concept is contextualized through practical comparisons with popular frameworks such as React Svelte Angular and Vue empowering practitioners to discern Marko s technical merits and unique approach to modern web development The book proceeds to dissect strategies for architecting Marko applications at scale including systematic component contracts efficient data flows event handling and template composition for maintainable composable UIs Readers will gain expertise in managing local and global state orchestrating asynchronous data workflows and integrating server side rendering all while ensuring accessibility internationalization and security remain first class concerns Comprehensive coverage of critical topics like performance engineering advanced routing and DevOps best practices equips teams to deliver robust globally distributed applications with confidence Further chapters navigate the complexities of cloud native deployment scalable CI CD automation and secure enterprise grade architectures Readers will explore advanced topics such as cloud and edge integration distributed data synchronization compliance and resilient infrastructure design The book concludes with forward looking guidance on extending Marko s ecosystem leveraging TypeScript contributing to open source and embracing emerging trends such as streaming and Islands Architecture For developers and architects seeking to master Marko for global scale applications this volume stands as an essential resource and roadmap

Blazor Web Application Development Richard Johnson,2025-06-25 Blazor Web Application Development Blazor Web Application Development is a comprehensive guide that equips developers with the knowledge and practical skills required to build robust scalable and modern applications using Microsoft s Blazor framework Beginning with a deep dive into Blazor s architectural foundations the book methodically explores the evolution of the Blazor ecosystem various hosting models component lifecycle management and advanced routing techniques Readers are introduced to sophisticated integration patterns with JavaScript and strategies to leverage NET s powerful dependency

injection system for scalable solutions Moving beyond the fundamentals the book uncovers advanced topics in component architecture including complex data binding runtime dynamic UI composition and the creation of accessible and reusable component libraries The narrative progresses seamlessly into nuanced discussions of state management real time data synchronization with SignalR handling multi user environments and implementing resilient error handling mechanisms Building on this solid base the reader learns to consume APIs efficiently using tools like strongly typed clients master authentication and authorization flows with OAuth2 and OpenID Connect and ensure that applications remain secure auditable and compliant with industry standards Pragmatic and forward looking Blazor Web Application Development also offers proven strategies for web performance optimization scaling Blazor solutions for the enterprise and integrating advanced DevOps practices for streamlined CI CD and zero downtime deployments in cloud environments Specialized chapters tackle sophisticated topics such as micro frontend architectures offline first PWA development platform bridging via NET MAUI and effective quality assurance through unit integration and performance testing Ideal for both aspiring and seasoned NET professionals this authoritative resource empowers readers to design build and operate world class web applications with Blazor

Building Web Applications with Nickel.rs William Smith,2025-08-19 Building Web Applications with Nickel rs Building Web Applications with Nickel rs is a comprehensive and practical guide for web developers and Rust enthusiasts looking to harness the power of the Rust programming language through the Nickel rs web framework This book expertly navigates the vibrant Rust web ecosystem positioning Nickel rs among its contemporaries and highlighting its philosophy core abstractions and real world application Readers gain a clear understanding of the framework s architectural patterns including handlers and middleware and learn how to efficiently manage the project lifecycle while leveraging Rust s renowned safety performance and concurrency guarantees With a strong emphasis on modern scalable web architecture the book delves into essential topics such as application state management advanced routing and middleware pipelines Real world persistence is addressed through exhaustive coverage of database integration ORM usage model design and serialization with Serde Security is treated as a first class concern guiding the reader through best practices in request validation authentication authorization and auditability rounded out with actionable strategies for robust security testing and compliance Beyond application development the book addresses the full spectrum of deployment and production readiness including binary optimization containerization orchestration with Kubernetes CI CD integration and real time features with asynchronous programming and WebSockets Through detailed case studies readers are equipped to build test and scale reliable web services transitioning legacy systems or architecting new distributed applications Whether you are new to Rust or an experienced backend developer Building Web Applications with Nickel rs empowers you to deliver secure high performance web applications that are modern maintainable and future proof

Building Reliable Web APIs with Echo and Go William Smith,2025-08-20 Building Reliable Web APIs with Echo and Go Building Reliable Web APIs with

Echo and Go is the ultimate guide for developers aiming to design build and operate robust API services with Go and the Echo web framework Bridging deep production grade Go expertise with modern cloud native architecture patterns this book takes readers from advanced language mastery including concurrency error management and project structuring through to effective use of Echo s composable middleware sophisticated routing and powerful extension mechanisms Each concept is explained concretely with actionable guidance on building scalable modular and high performance web APIs As the journey continues the book explores the critical dimensions of RESTful API design and long term contract evolution arming readers with best practices for schema management idempotency pagination and seamless versioning strategies It offers a comprehensive security blueprint covering authentication authorization vulnerability mitigation and defense in depth through JWT OAuth2 encryption rate limiting and exposure management Data persistence is treated with equal rigor from repository abstractions to zero downtime migrations transactional integrity and distributed caching all to guarantee reliable consistent state across complex deployments Rounding out the blueprint is a strong emphasis on validation testing and operational excellence The final chapters cover automated testing strategies including chaos engineering alongside rich observability with logging metrics and distributed tracing Readers will master cloud native deployment with Docker and Kubernetes implement resilient CI CD manage API evolution and craft a frictionless developer experience via live documentation SDK generation analytics and effective governance Whether building new web APIs or refactoring existing services this book is an indispensable resource for creating maintainable secure and future proof Go Echo web services

Building Web Applications with Gin in Go William Smith, 2025-08-19 Building Web Applications with Gin in Go Building Web Applications with Gin in Go is a comprehensive technical guide that empowers developers to harness the full potential of Go and its high performance Gin web framework Beginning with an in depth exploration of Go s concurrency features type system and idiomatic design patterns the book delves into the architectural internals of Gin unraveling its request flow middleware pipelines and performance optimizations essential for building scalable backend systems Readers will also gain actionable strategies for robust error handling advanced dependency management and performance profiling crucial in enterprise grade web services As the chapters progress the book systematically addresses every facet of modern web application development It covers advanced routing techniques modular middleware design and type safe handler patterns to ensure maintainability and flexibility in complex APIs Key topics include data binding and validation for secure user inputs sophisticated templating and output strategies for HTML and alternate formats and multilayered security architecture from TLS configuration and OAuth2 integrations to practical defenses against common attacks State management database integration distributed caching and transactional patterns are thoroughly examined to provide readers with scalable persistence solutions Rounding out its technical depth the book offers best practices on automated testing observability centralized logging and cloud native deployment patterns with Docker and Kubernetes Readers will also

discover progressive topics such as real time communication with WebSockets extensibility through plugins and hooks and leveraging code generation to accelerate workflows Whether building greenfield SaaS applications or refactoring large scale services Building Web Applications with Gin in Go stands as an indispensable resource balancing real world practices and emerging techniques to equip Go developers for the demands of modern web engineering Building Machine Learning Web Applications with Hugging Face Spaces and Gradio William Smith,2025-08-20 Building Machine Learning Web Applications with Hugging Face Spaces and Gradio Dive into the cutting edge of machine learning deployment with Building Machine Learning Web Applications with Hugging Face Spaces and Gradio This comprehensive guide bridges the gap between experimental model development and robust scalable production deployment Beginning with architectural foundations the book provides a clear systematic overview of contemporary patterns ranging from monolithic to microservices and serverless architectures ensuring readers build secure observable and portable applications Emphasis on service interfaces containerization and effective monitoring prepares you for the unique operational demands of ML powered web apps Explore the enabling power of Hugging Face Spaces and Gradio as you unlock seamless web UI creation dynamic workflows and collaborative innovation The book delivers practical expertise in repository organization versioning hardware optimization and continuous integration tailored to the realities of interactive ML deployment Core chapters guide you through advanced Gradio design patterns from deep customization and responsive UX to internationalization while laying out robust testing debugging and performance optimization strategies Further you ll master the end to end deployment lifecycle delving into model serialization secure configuration CI CD pipelines and scalable cost efficient operations Recognizing the real world stakes of AI deployment the book devotes detailed attention to security privacy and responsible AI mapping out threat models anonymization bias mitigation and regulatory compliance Extensive case studies illuminate successful launches in conversational AI computer vision audio processing and regulated enterprise environments Finally you ll survey the evolving landscape open science crowdsourcing cutting edge serverless and edge deployments LLM driven experiences and ethical open source best practices Whether you re transforming prototypes into production or fostering community driven research this book is the essential reference for the next generation of ML web applications *JavaTech, an Introduction to Scientific and Technical Computing with Java* Clark S. Lindsey,Johnny S. Tolliver,Thomas Lindblad,2005-10-13 JavaTech demonstrates the ease with which Java can be used to create powerful network applications and distributed computing applications It can be used as a textbook for introductory or intermediate level programming courses and for more advanced students and researchers who need to learn Java for a particular task JavaTech is up to date with Java 5 0 BOOK JACKET **Wagi in Practice** William Smith,2025-07-24 Wagi in Practice Wagi in Practice offers a definitive exploration of Wagi a groundbreaking runtime for executing WebAssembly modules in server environments The book methodically guides readers through the architectural foundations of Wagi and its relationship with the WebAssembly

System Interface WASI providing a thorough understanding of handler invocation process isolation and supported development toolchains Insightful comparisons to other state of the art server paradigms such as FastCGI and containerized microservices highlight Wagi s unique strengths in performance portability and security Delving into advanced application design the book equips readers with proven patterns for handler orchestration routing and scalable state management It addresses practical considerations including error propagation observability and automated testing ensuring robust and maintainable Wagi applications Chapters dedicated to security illuminate key attack surfaces sandboxing strategies authentication mechanisms and compliance making this resource invaluable for architects and developers building resilient production systems Wagi in Practice expands further to encompass key topics such as performance optimization DevOps automation and integration with diverse ecosystem components like databases message queues and API gateways Real world case studies spanning edge deployments SaaS platforms and enterprise modernization demonstrate Wagi s versatility at scale Concluding with a forward looking perspective the book surveys ongoing research directions community initiatives and emerging standards cementing itself as an essential reference for mastering WebAssembly server computing with Wagi

Deploying Machine Learning Projects with Hugging Face Spaces William Smith, 2025-08-19 Deploying Machine Learning Projects with Hugging Face Spaces Unlock the full potential of modern machine learning deployment with Deploying Machine Learning Projects with Hugging Face Spaces a comprehensive guide designed for practitioners engineers and architects navigating the evolving landscape of scalable ML applications This book begins by demystifying the architecture of Hugging Face Spaces providing readers with foundational insights into core platform concepts supported runtimes such as Gradio and Streamlit and the sophisticated resource allocation and security paradigms that underpin robust scalable deployments Through detailed analysis it clears the path to integrating third party tools mastering CI CD practices and extending the platform for custom development needs Transitioning seamlessly into practical ML workflows the book delves into the intricacies of model preparation and optimization covering essential topics like serialization fine tuning dependency packaging and artifact management for reliable provenance Readers will find expert strategies for developing compelling interactive user interfaces including multimodal support data visualization and responsive UX design that transform technical models into engaging applications With deep coverage of backend engineering and scalable integrations the text empowers builders to implement state management asynchronous processing secure API interfaces and hardware acceleration all while observing best practices in monitoring observability and error management Spanning from operational MLOps and automated testing pipelines to the highest standards in security privacy compliance and large scale reliability engineering Deploying Machine Learning Projects with Hugging Face Spaces is rich with case studies design patterns and forward looking trends Whether you are launching your first NLP demo or re architecting enterprise scale ML solutions this guide offers pragmatic blueprints actionable checklists and visionary guidance for creating resilient impactful machine

learning applications using the Hugging Face ecosystem *Remix Architecture and Application Development* William Smith, 2025-08-20

Remix Architecture and Application Development is a comprehensive guide crafted for developers and architects aspiring to master the Remix framework. This book delves into the philosophical foundation and technical core of Remix, revealing how its route-centric architecture, data flow mechanisms, and commitment to progressive enhancement distinguish it among modern web technologies. Through in-depth exploration of server-side rendering strategies, resource management, and component composition, readers gain a practical understanding of building robust, high-performance applications from the ground up. Beyond the fundamentals, the book tackles advanced design patterns crucial for scaling complex applications. Topics include sophisticated routing techniques, state management strategies across both client and server, and seamless integration with databases, APIs, and real-time infrastructures. Special attention is given to performance engineering and security, offering actionable insights into optimizing asset delivery, implementing secure authentication and authorization, and safeguarding against common vulnerabilities—all vital considerations for mission-critical deployments. To ensure reliability at scale, the book further covers end-to-end testing methodologies, observability, and modern DevOps practices tailored for Remix applications. Readers will find guidance on deploying resilient systems in cloud environments, orchestrating continuous delivery pipelines, and managing multi-region hybrid deployments. Ample real-world case studies, extensibility patterns, internationalization strategies, and accessibility best practices anchor the technical concepts, making *Remix Architecture and Application Development* an indispensable resource for anyone engineering next-generation web applications.

Fiber Web Development with Go William Smith, 2025-08-20

Fiber Web Development with Go offers an in-depth exploration of building high-performance, scalable, and secure web applications using the Fiber framework and the Go programming language. This book guides readers through every layer of modern web engineering, from Go's concurrency-friendly features and Fiber's architectural design to industry best practices for project modularization, dependency management, and ecosystem integration. Through expert comparisons, in-depth case studies, and hands-on patterns, developers learn how to leverage Fiber's speed while maintaining robust, maintainable codebases for projects of any size. With comprehensive coverage of HTTP fundamentals, optimized routing, advanced request handling, and middleware composition, the book empowers readers to design resilient APIs and efficient service backends. Detailed chapters cover data serialization, request context propagation, file delivery, error modeling, and state management, alongside essential guidance for integrating with SQL/NoSQL databases, implementing caching, orchestrating background tasks, and safeguarding data access at scale. The security engineering section demystifies threat modeling, authentication strategies, OWASP defenses, and supply chain integrity within Fiber-centric workflows. The latter sections provide strategies for deploying, monitoring, and maintaining Fiber applications in modern production environments. Readers will master topics such as containerization, Kubernetes orchestration, dynamic configuration, and zero downtime.

deployment health checking observability and automated incident management With coverage of contemporary testing methodologies CI CD pipelines and future facing trends like serverless edge computing and internationalization Fiber Web Development with Go is an indispensable resource for Go developers and engineering teams seeking to deliver robust performant and future ready web services

Axum Web Development in Rust William Smith, 2025-07-24 Axum Web Development in Rust Axum Web Development in Rust is a definitive guide for experienced developers seeking to master backend web development with the Axum framework and Rust's robust type safe ecosystem This comprehensive book reveals Axum's architectural philosophy and async foundations contrasting it with other leading Rust web frameworks to illuminate its distinctive modularity scalability and performance Through detailed chapters readers learn best practices for structuring large scale applications establishing effective tooling and exploiting the capabilities of the wider Tower middleware ecosystem The book delves deep into advanced routing request handling and state management equipping readers with the expertise to design complex APIs with strong typing and ergonomic extraction It covers essential patterns for dependency injection concurrency middleware composition serialization validation and seamless integration with modern ORMs Security is addressed holistically encompassing TLS authentication and authorization protocols vulnerability mitigation and runtime security tools for both development and deployment Going beyond application logic Axum Web Development in Rust addresses critical concerns for production environments Readers discover robust strategies for testing observability and performance tuning as well as cloud native deployment patterns such as Kubernetes serverless and CI CD automation The book culminates in advanced guidance for building real world architectures optimizing performance supporting multi protocol APIs enabling seamless legacy integration and future proofing projects in the evolving Rust landscape making it an indispensable reference for professional Rust web developers

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Web Scalability For Startup Engineers Introduction

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