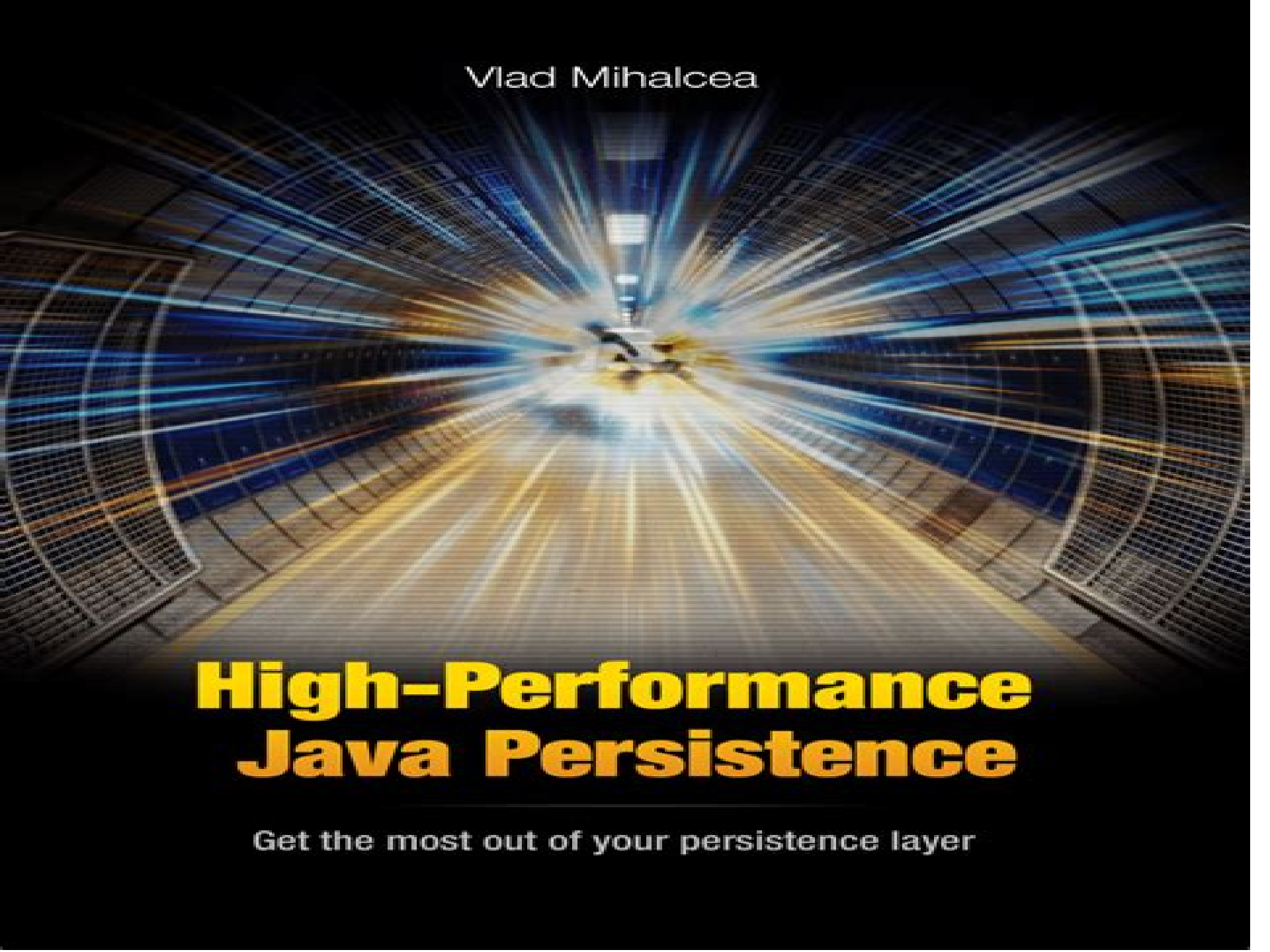




Vlad Mihalcea

High-Performance Java Persistence

Get the most out of your persistence layer

High Performance Java Persistence

Gary Mak



High Performance Java Persistence:

High-Performance Java Persistence Vlad Mihalcea, 2016-10-12 A high performance data access layer must resonate with the underlying database system Knowing the inner workings of a relational database and the data access frameworks in use can make the difference between a high performance enterprise application and one that barely crawls This book is a journey into Java data access performance tuning From connection management to batch updates fetch sizes and concurrency control mechanisms it unravels the inner workings of the most common Java data access frameworks The first part aims to reduce the gap between application developers and database administrators For this reason it covers both JDBC and the database fundamentals that are of paramount importance when reducing transaction response times In this first part you ll learn about connection management batch updates statement caching result set fetching and database transactions The second part demonstrates how you can take advantage of JPA and Hibernate without compromising application performance In this second part you ll learn about the most efficient Hibernate mappings basic types associations inheritance fetching best practices caching and concurrency control mechanisms The third part is dedicated to jOOQ and its powerful type safe querying capabilities like window functions common table expressions upsert stored procedures and database functions

Advanced Java Persistence: Techniques and Best Practices with Hibernate Adam Jones, 2024-12-13 Unlock the full potential of Java persistence with Advanced Java Persistence Techniques and Best Practices with Hibernate This definitive guide offers an in depth exploration of Hibernate the leading ORM framework that has transformed Java application development With comprehensive coverage ranging from foundational concepts and configurations to advanced mappings query optimizations and performance tuning this book is meticulously crafted for Java developers architects and anyone eager to master Hibernate Advanced Java Persistence is structured to elevate your skills by detailing how to seamlessly integrate Hibernate into your Java projects for enhanced data handling and optimized application performance Discover how to harness Hibernate s capabilities for entity mapping transaction management concurrency control and more This book enriched with practical examples expert insights and valuable tips equips you to overcome common challenges empowering you to build efficient scalable and robust Java applications Whether you re new to Hibernate or seeking to enhance your existing knowledge this book provides a wealth of information and best practices to help you navigate the complexities of Java persistence Prepare to transform your application development process and achieve superior results with Advanced Java Persistence Techniques and Best Practices with Hibernate

[Java EE 8 High Performance](#) Romain Manni-Bucau, 2018-01-30 Get more control of your applications performances in development and production and know how to meet your Service Level Agreement on critical microservices Key Features Learn how to write a JavaEE application with performance constraints Service Level Agreement SLA leveraging the platform Learn how to identify bottlenecks and hotspots in your application to fix them Ensure that you are able to continuously control your performance in production and

during development

Book Description The ease with which we write applications has been increasing but with this comes the need to address their performance A balancing act between easily implementing complex applications and keeping their performance optimal is a present day need In this book we explore how to achieve this crucial balance while developing and deploying applications with Java EE 8 The book starts by analyzing various Java EE specifications to identify those potentially affecting performance adversely Then we move on to monitoring techniques that enable us to identify performance bottlenecks and optimize performance metrics Next we look at techniques that help us achieve high performance memory optimization concurrency multi threading scaling and caching We also look at fault tolerance solutions and the importance of logging Lastly you will learn to benchmark your application and also implement solutions for continuous performance evaluation By the end of the book you will have gained insights into various techniques and solutions that will help create high performance applications in the Java EE 8 environment

What you will learn Identify performance bottlenecks in an application Locate application hotspots using performance tools Understand the work done under the hood by EE containers and its impact on performance Identify common patterns to integrate with Java EE applications Implement transparent caching on your applications Extract more information from your applications using Java EE without modifying existing code Ensure constant performance and eliminate regression

Who this book is for If you re a Java developer looking to improve the performance of your code or simply wanting to take your skills up to the next level then this book is perfect for you

Java Persistence for Relational Databases Richard Sperko,2008-01-01 Java Persistence for Relational Databases is chock full of best practices and patterns for those of you who want to connect to databases using Java Coverage includes various database related APIs for Java like JDO JDBC including the newest 3 0 APIs and CMP Container Managed Persistence with EJB All those things you developers have wanted to know but were afraid to ask are featured inside this book It offers a realistic and multi angled look at persisting Java objects Whether your environment requires you to use JDO CMP Castor or to hand code a persistence layer using JDBC the answers all lie inside this book

Java Persistence with NoSQL Otávio Santana,2024-03-08 Unlock infinite possibilities Java NoSQL Enterprise excellence

KEY FEATURES Gain expertise with the theory and practice of NoSQL databases Master Java principles and code design for NoSQL incorporation Learn to integrate NoSQL databases into robust enterprise architectures

DESCRIPTION Java Persistence with NoSQL is a comprehensive guide that offers a unique blend of theoretical knowledge and practical implementation making it an invaluable resource for those seeking to excel in their roles The book is divided into four parts covering essential NoSQL concepts Java principles Jakarta EE integration and the integration of NoSQL databases into enterprise architectures Readers will explore NoSQL databases comparing their strengths and use cases They will then master Java coding principles and design patterns necessary for effective NoSQL integration The book also discusses the latest Jakarta EE specifications enhancing readers understanding of Jakarta s role in data storage and retrieval Finally readers will learn to implement various NoSQL databases into enterprise grade solutions

ensuring security high availability and fault tolerance With hands on exercises real world examples and best practices this book equips professionals with the skills and knowledge needed to excel in building robust and scalable Java applications using NoSQL databases WHAT YOU WILL LEARN Mastering NoSQL concepts and choosing the right database solutions Integrating NoSQL databases into Java and Jakarta EE applications Implementing Java design patterns for efficient data persistence Leveraging Jakarta EE and MicroProfile for enhanced Java architecture Designing enterprise grade solutions with NoSQL databases for high availability WHO THIS BOOK IS FOR This book is tailored for senior engineers architects Java developers and NoSQL enthusiasts who want to deepen their understanding of NoSQL databases within the Java ecosystem TABLE OF CONTENTS 1 Introduction to NoSQL Databases 2 NoSQL Databases A Comparative Analysis 3 Running NoSQL in Production Best Practices and Considerations 4 Streamlining Java Application Integration with Frameworks 5 Java Persistence Design Pattern 6 Java Architecture and Persistence Layer 7 Introduction to Jakarta EE and MicroProfile 8 Advanced Validation Techniques with Jakarta Bean Validation 9 Enhance Object oriented Programming with CDI 10 Implementing Rest with JAX RS 11 Introduction to Jakarta EE NoSQL and Data 12 Redis Integration 13 Cassandra Integration 14 MongoDB Integration 15 Neo4J Integration 16 ArangoDB and Couchbase Integration 17 Final Considerations

Troubleshooting Java Performance Erik Ostermueller, 2017-09-30 Troubleshoot the most widespread and pernicious Java performance problems using a set of open source and freely available tools that will make you dramatically more productive in finding the root causes of slow performance This is a brief book that focuses on a small number of performance anti patterns and you ll find that most problems you encounter fit into one of these anti patterns The book provides a specific method in a series of steps referred to as the P A t h Checklist that encompasses persistence alien systems threads and heap management These steps guide you through a troubleshooting process that is repeatable that you can apply to any performance problem in a Java application This technique is especially helpful in dark environments with little monitoring Performance problems are not always localized to Java but often fall into the realms of database access and server load This book gives attention to both of these issues through examples showing how to identify repetitive SQL and identify architecture wide performance problems ahead of production rollout Learn how to apply load like an expert and determine how much load to apply to determine whether your system scales Included are walk throughs of a dozen server side performance puzzles that are ready to run on your own machine Following these examples helps you learn to Assess the performance health of four main problems areas in a Java system The P A t h Checklist presents each area with its own set of plug it in now tools Pinpoint the code at fault for CPU and other bottlenecks without a Java profiler Find memory leaks in just minutes using heapSpank the author s open source leak detector utility that is freely available from heapSpank org The repeatable method provided in this book is an antidote to lackluster average response times that are multi second throughout the industry This book provides a long absent easy to follow performance training regimen that will benefit anyone

programming in Java What You ll Learn Avoid the 6 most common ways to mess up a load test Determine the exact number of threads to dial into the load generator to test your system s scalability Detect the three most common SQL performance anti patterns Measure network response times of calls to back end systems alien systems Identify whether garbage collection performance is healthy or unhealthy and whether delays are caused by problems in the old or new generation so you know which generation needs to be adjusted Who This Book Is For Intermediate and expert Java developers and architects Java experts will be able to update their skill set with the latest and most productive open source Java performance tools IntermediateJava developers are exposed to the most common performance defects that repeatedly show up in Java applications ones that account for the bulk of slow performing systems Experts and intermediates alike will benefit from the chapters on load generation

Spring Security in Action, Second Edition Laurentiu Spilca,2024-06-25 Don t let security be an afterthought Spring Security in Action Second Edition is your vital companion to robust secure applications that are protected right from the first line of code Spring Security in Action Second Edition is a revised version of the bestselling original fully updated for Spring Boot 3 and OAuth2 OpenID Connect In Spring Security in Action Second Edition you will learn essential security skills including how to Implement and customize authentication and authorization Set up all components of an OAuth2 OpenID Connect system Utilize CSRF and CORS configurations Secure Spring reactive applications Write tests for security configurations Whether you re a beginner or a pro Spring Security in Action Second Edition teaches you how to secure your Java applications from the ground up Author Laurentiu Spilca distills his years of experience as a skilled Java and Spring developer into an indispensable guide to everything security from authentication and authorization to testing security configurations This new edition covers the latest patterns for application level security in Spring apps demonstrating how Spring Security simplifies every step of the security process Foreword by Joe Grandja About the technology Spring Security makes it much much easier to secure enterprise scale Java applications This powerful framework integrates with Spring apps end to end with secure by design principles and ready to use features that help you implement robust authorization and authentication and protect against data theft and intrusions And like everything else in the Spring ecosystem it s free open source and backed by the awesome team at VMWare About the book Spring Security in Action Second Edition updates this bestselling guide to Spring Security to include deep coverage of OAuth2 OpenID Connect and security configuration using the new SecurityFilterChain The crystal clear explanations and relevant examples teach you how to build your own authorization server configure secure endpoints and prevent cross site scripting and request forgery attacks What s inside Custom authentication and authorization CSRF and CORS configurations Secure Spring reactive applications Write tests for security configurations About the reader For experienced Java and Spring developers About the author Laurentiu Spilca is a skilled Java and Spring developer and an experienced technology instructor He is also the author of Manning s Spring Start Here and Troubleshooting Java Table of Contents PART 1 1 Security today 2 Hello Spring Security

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Implementing security in reactive applications PART 6 18 Testing security configurations **Mastering Java Persistence**

API (JPA) Nisha Parameswaran Kurur,2022-03-12 Filled with sample case study exercises commonly faced issues solutions
and important interview questions this book is surely going to help developers to expand their skills in JPA KEY FEATURES
Covers every JPA capability with detailed examples Explanation of popular JPA providers in detail as well as sample JPA code
Includes solutions geared toward developers interview questions and expert advice DESCRIPTION Mastering Java
Persistence API is geared towards experiencing the functioning of JPA and the extent of its use in Java SE and Java EE
applications While the book s primary objective is to develop competence in JPA it also takes a simpler approach to refresh
readers on basic database management system concepts and how to design simple JPA applications The book begins with the
ideas like ORM EJB CMP and the difficulties associated with data conversion from a database to an application and vice versa
are handled spontaneously The book discusses Table Row Column Cell and various forms of Relationships and progress
sequentially through the JPA concepts It also discusses database processes such as identity generation sequencing locking
querying persisting caching and transaction management in detail and emphasizes how JPA handles them Further the book
covers the architecture and setup of two of the most extensively used JPA provider implementations Hibernate and
EclipseLink in detail Additionally this book includes sample functioning code for connecting to a MySQL database Each JPA
functionality is illustrated with a code snippet making it easier to modify these features as the application develops This book
teaches both beginners and seasoned professionals how to integrate JPA concepts in their employment through numerous
problems and answers spanning each of the topics WHAT YOU WILL LEARN Refresh your knowledge of relational database
management system concepts in an object oriented approach Using JPA you can create a table row column key query data
type etc Prepare for your first JPA project by working through the Mavenized Sample working code Identify various ways for
object oriented representation of relationships Acquire proficiency in various approaches for storing caching and transaction
management Discover the inner workings of JPA providers Hibernate and EclipseLink as well as their architecture WHO
THIS BOOK IS FOR This book is aimed at Java developers who wish to master JPA and develop JPA based applications
enthusiastically To get the most out of this book you should have a basic familiarity with Java programming TABLE OF
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Identity Sequencing and Locking 4 Relationships Types and Strategies 5 Query Infrastructure 6 Entity Manager Persisting

Caching and Transaction 7 Hibernate and EclipseLink 8 Appendix Part 1 JPA Advanced Topics 9 Appendix Part 2 Sample JPA Application and Questions

Cloud Native Spring in Action Thomas Vitale, 2023-02-14 Build and deliver production grade cloud native apps with Spring framework and Kubernetes In *Cloud Native Spring in Action* you ll learn Cloud native best practices and design patterns Build and test cloud native apps with Spring Boot and Spring Cloud Handle security resilience and scalability in imperative and reactive applications Configure deploy and observe applications on Kubernetes Continuous delivery and GitOps to streamline your software lifecycle *Cloud Native Spring in Action* is a practical guide to building applications that are designed for cloud environments You ll learn effective Spring and Kubernetes cloud development techniques that you can immediately apply to enterprise grade applications Follow a detailed and complete cloud native system from first concept right through to production and deployment learning best practices design patterns and little known tips and tricks for pain free cloud native development Including coverage of security continuous delivery and configuration this hands on guide is the perfect primer for navigating the increasingly complex cloud landscape About the technology Do you want to learn how to build scalable resilient and observable Spring applications that take full advantage of the cloud computing model If so *Cloud Native Spring in Action* is the book for you It will teach you the essential techniques and practices you need to build efficient Spring Boot applications ready for production in the cloud About the book In *Cloud Native Spring in Action* you ll learn how to containerize your Spring Boot applications with Cloud Native Buildpacks and deploy them on Kubernetes This practical guide delivers unique insights into hosting microservices serverless applications and other modern architectures on cloud platforms You ll learn how to use Spring based methodologies practices and patterns that you won t find anywhere else What s inside Implement cloud native patterns with Spring Handle security resilience and scalability Build and test imperative and reactive applications Configuration and observability on Kubernetes Adopt continuous delivery and GitOps About the reader For intermediate Java developers About the author Thomas Vitale is a software engineer open source contributor and international conference speaker

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12 Security Authorization and auditing

Rapid Java Persistence and Microservices Raj Malhotra, 2019-06-19 Gain all the essentials you need to create scalable microservices which will help you solve real challenges when deploying services into production This book will take you through creating a scalable data layer with polygot persistence You ll cover data access and query patterns in Spring and JPA in high performance environments As part of this topic you ll see the advantages of multiple persistence frameworks in Java and

especially the easy persistence offered by NoSQL databases and reactive web solutions The last few chapters present advanced concepts that are useful for very high performance real time applications you ll implement applications using Spring s good support for Web sockets in their raw form as well as for connecting to message brokers such as RabbitMQ This can be useful for applications such as navigation systems and gaming platforms What You Will Learn Build end to end modern applications using microservices persistence essentials reactive web and other high performance concepts Master Spring s configuration options Secure microservices efficiently Monitor your services post deployment Who This Book Is For Java developers and architects interested in microservices

Enhancing Java EE Applications: Strategies for Performance and Scalability Peter Jones, 2025-01-09 Unlock the full potential of your Java EE applications with *Enhancing Java EE Applications: Strategies for Performance and Scalability* This essential guide provides comprehensive coverage of techniques and strategies to boost the performance and scalability of your Java EE applications From architectural insights to advanced coding practices each chapter brims with expert advice and practical solutions to help you overcome performance and scalability challenges Learn how to profile and monitor applications to pinpoint bottlenecks optimize Java EE servers effectively interact with databases and implement robust concurrency and multithreading Explore caching strategies fine tune application code and master network communications within a Java EE context Additionally discover how to manage memory efficiently and deploy resources wisely to ensure maximum stability and performance Whether you re a software developer IT architect or system administrator this book empowers you to make performance driven decisions that can significantly impact the success of your enterprise applications Dive into *Enhancing Java EE Applications: Strategies for Performance and Scalability* and elevate your Java EE skills ensuring your applications are efficient scalable and poised to meet the demands of your business

Persistence in the Enterprise Roland Barcia, Geoffrey Hambrick, Kyle Brown, Robert Peterson, Kulvir Singh Bhogal, 2008-05-01 The Definitive Guide to Today s Leading Persistence Technologies *Persistence in the Enterprise* is a unique up to date and objective guide to building the persistence layers of enterprise applications Drawing on their extensive experience five leading IBM Web development experts carefully review the issues and tradeoffs associated with persistence in large scale business critical applications The authors offer a pragmatic consistent comparison of each leading framework both proprietary and open source Writing for IT managers architects administrators developers and testers the authors address a broad spectrum of issues ranging from coding complexity and flexibility to scalability and licensing In addition they demonstrate each framework side by side via a common example application With their guidance you ll learn how to define your persistence requirements choose the most appropriate solutions and build systems that maximize both performance and value Coverage includes Taking an end to end application architecture view of persistence Understanding business drivers IT requirements and implementation issues Driving your persistence architecture via functional nonfunctional and domain requirements Modeling persistence domains Mapping domain models to relational

databases Building a yardstick for comparing persistence frameworks and APIs Selecting the right persistence technologies for your applications Comparing JDBCTM Apache iBATIS Hibernate Core Apache OpenJPA and pureQuery The companion web site includes sample code that implements the common example used throughout the technology evaluation chapters 5 9 The IBM Press developerWorks Series is a unique undertaking in which print books and the Web are mutually supportive The publications in this series are complemented by resources on the developerWorks Web site on ibm com Icons throughout the book alert the reader to these valuable resources

Java Rheinwerk Publishing, Inc, Christian Ullenboom, 2025-06-19

Explore a complete Java programming guide covering foundational to advanced topics including OOP concurrency and testing Perfect for developers seeking practical in depth Java knowledge Key Features Comprehensive coverage of Java from foundational concepts to advanced programming techniques Designed to clarify complex topics for all skill levels using clear explanations and examples Structured to combine theory with practical application for real world Java development challenges

Book Description This comprehensive guide introduces readers to Java programming from the ground up beginning with the language's history installation and core syntax Early chapters cover imperative programming concepts object oriented principles and essential data types like arrays and strings As the journey progresses readers explore custom classes inheritance interfaces exceptions and nested types building a solid foundation in Java's structure and design Midway the book dives into advanced topics such as generics lambda expressions functional programming and concurrency Readers gain practical knowledge of modern Java features including module systems the extensive Java class library and the nuances of thread management The coverage also extends to data structures algorithms file I/O and database connectivity with JDBC empowering readers to handle real world programming challenges with confidence The final sections focus on testing with JUnit software design patterns and Java development tools equipping readers with skills to write clean maintainable and efficient code Throughout this journey the book emphasizes practical examples and best practices making it an indispensable resource for learners aiming to master Java from basics to advanced professional techniques

What you will learn Master core Java syntax and control flow constructs effectively Build and manipulate classes objects and data structures Implement robust exception handling and error management Apply generics and collections to write flexible code Utilize concurrency and threading for efficient programs Develop and execute unit tests using the JUnit framework

Who this book is for Ideal for aspiring Java developers and programmers familiar with some coding basics this book assumes no prior Java knowledge but expects general programming awareness It suits learners aiming to master Java from fundamentals to advanced concepts including concurrency and testing

Hands-On Java: Practical Exercises for Programmers Manjunath.R, 2024-06-26

Are you ready to master Java programming through hands on practice Dive into the world of Java with Hands On Java Practical Exercises for Programmers a comprehensive guide designed to elevate your skills through a series of engaging exercises This book is tailored for programmers at all levels whether you're just starting your journey in Java or looking to

enhance your proficiency Each exercise is thoughtfully designed to encompass fundamental Java concepts spanning from foundational syntax to advanced topics By working through these exercises you will not only strengthen your understanding of Java but also gain practical experience in solving real world programming challenges

Linux Commands, C, C++, Java and Python Exercises For Beginners Manjunath.R,2020-03-27 Hands On Practice for Learning Linux and Programming Languages from Scratch Are you new to Linux and programming Do you want to learn Linux commands and programming languages like C C Java and Python but don t know where to start Look no further An approachable manual for new and experienced programmers that introduces the programming languages C C Java and Python This book is for all programmers whether you are a novice or an experienced pro It is designed for an introductory course that provides beginning engineering and computer science students with a solid foundation in the fundamental concepts of computer programming In this comprehensive guide you will learn the essential Linux commands that every beginner should know as well as gain practical experience with programming exercises in C C Java and Python It also offers valuable perspectives on important computing concepts through the development of programming and problem solving skills using the languages C C Java and Python The beginner will find its carefully paced exercises especially helpful Of course those who are already familiar with programming are likely to derive more benefits from this book After reading this book you will find yourself at a moderate level of expertise in C C Java and Python from which you can take yourself to the next levels The command line interface is one of the nearly all well built trademarks of Linux There exists an ocean of Linux commands permitting you to do nearly everything you can be under the impression of doing on your Linux operating system However this at the end of time creates a problem because of all of so copious commands accessible to manage you don t comprehend where and at which point to fly and learn them especially when you are a learner If you are facing this problem and are peering for a painless method to begin your command line journey in Linux you ve come to the right place as in this book we will launch you to a hold of well liked and helpful Linux commands This book gives a thorough introduction to the C C Java and Python programming languages covering everything from fundamentals to advanced concepts It also includes various exercises that let you put what you learn to use in the real world With step by step instructions and plenty of examples you ll build your knowledge and confidence in Linux and programming as you progress through the exercises By the end of the book you ll have a solid foundation in Linux commands and programming concepts allowing you to take your skills to the next level Whether you re a student aspiring programmer or curious hobbyist this book is the perfect resource to start your journey into the exciting world of Linux and programming

C, C++, Java, Python, PHP, JavaScript and Linux For Beginners Manjunath.R,2020-04-13 An Introduction to Programming Languages and Operating Systems for Novice Coders An ideal addition to your personal elibrary With the aid of this indispensable reference book you may quickly gain a grasp of Python Java JavaScript C C CSS Data Science HTML LINUX and PHP It can be challenging to understand the programming language

s distinctive advantages and charms Many programmers who are familiar with a variety of languages frequently approach them from a constrained perspective rather than enjoying their full expressivity Some programmers incorrectly use Programmatic features which can later result in serious issues The programmatic method of writing programs the ideal approach to use programming languages is explained in this book This book is for all programmers whether you are a novice or an experienced pro Its numerous examples and well paced discussions will be especially beneficial for beginners Those who are already familiar with programming will probably gain more from this book of course I want you to be prepared to use programming to make a big difference C C Java Python PHP JavaScript and Linux For Beginners is a comprehensive guide to programming languages and operating systems for those who are new to the world of coding This easy to follow book is designed to help readers learn the basics of programming and Linux operating system and to gain confidence in their coding abilities With clear and concise explanations readers will be introduced to the fundamental concepts of programming languages such as C C Java Python PHP and JavaScript as well as the basics of the Linux operating system The book offers step by step guidance on how to write and execute code along with practical exercises that help reinforce learning Whether you are a student or a professional C C Java Python PHP JavaScript and Linux For Beginners provides a solid foundation in programming and operating systems By the end of this book readers will have a solid understanding of the core concepts of programming and Linux and will be equipped with the knowledge and skills to continue learning and exploring the exciting world of coding

Mastering the Interview: 80 Essential Questions for Software Engineers Manjunath.R,2023-05-19 The Software Engineer s Guide to Acing Interviews Software Interview Questions You ll Most Likely Be Asked Mastering the Interview 80 Essential Questions for Software Engineers is a comprehensive guide designed to help software engineers excel in job interviews and secure their dream positions in the highly competitive tech industry This book is an invaluable resource for both entry level and experienced software engineers who want to master the art of interview preparation This book provides a carefully curated selection of 80 essential questions that are commonly asked during software engineering interviews Each question is thoughtfully crafted to assess the candidate s technical knowledge problem solving abilities and overall suitability for the role This book goes beyond just providing a list of questions It offers in depth explanations detailed sample answers and insightful tips on how to approach each question with confidence and clarity The goal is to equip software engineers with the skills and knowledge necessary to impress interviewers and stand out from the competition Mastering the Interview 80 Essential Questions for Software Engineers is an indispensable guide that empowers software engineers to navigate the interview process with confidence enhance their technical prowess and secure the job offers they desire Whether you are a seasoned professional or a recent graduate this book will significantly improve your chances of acing software engineering interviews and advancing your career in the ever evolving world of technology

Essential App Engine Adriaan de Jonge,2012 In Essential App Engine Adriaan de Jonge shows Java developers how to rapidly build

complex production quality performance driven cloud applications with Google App Engine Using a start to finish case study and extensive Java example code De Jonge covers the entire lifecycle from application design and data modeling through security testing and deployment De Jonge introduces breakthrough techniques for creating applications that respond within two seconds even on cold startup and allow server responses in hundreds of milliseconds or less throughout the rest of the session He also demonstrates how to avoid common mistakes that can dramatically reduce cloud application performance and scalability He thoroughly covers state of the art user interface development and shows how to make the most of Google App Engine s extensive set of APIs Coverage includes Setting up a development environment that makes it easy to continually address performance Understanding the anatomy of a Google App Engine application Making the right technical setup and design choices for each new application Efficiently modeling data for App Engine s NoSQL data storage Recognizing when to avoid OR mapping and pass datastore entities directly to HTML templates Finding alternatives to frameworks and libraries that impair App Engine performance Using JavaScript and AJAX on the client side of your cloud applications Improving browser performance and reducing resource consumption via better use of HTML5 and CSS3 Taking advantage of key App Engine APIs datastore blobstore mail task scheduling memory caching URL retrieval and messaging Securing cloud based Web applications with Google Accounts OpenID and OAuth Improving your cloud development quality assurance and deployment processes Targeting marketing and selling cloud solutions from planning to payment handling

Spring Recipes Gary Mak, 2008-08-29 Spring addresses most aspects of Java EE application development and offers simple solutions to them By using Spring you will be lead to use industry best practices to design and implement your applications The releases of Spring 2 x added many improvements and new features to the 1 x versions Spring Recipes A Problem Solution Approach focuses on Spring 2 5 features for building enterprise Java applications Spring Recipes covers Spring 2 5 from basic to advanced including Spring IoC container Spring AOP and AspectJ Spring data access support Spring transaction management Spring Web and Portlet MVC Spring testing support Spring support for remoting EJB JMS JMX E mail scheduling and scripting languages This book also introduces several common Spring Portfolio projects that will bring significant value to your application development including Spring Security Spring Web Flow and Spring Web Services The topics in this book are introduced by complete and real world code examples that you can follow step by step Instead of abstract descriptions on complex concepts you will find live examples in this book When you start a new project you can consider copying the code and configuration files from this book and then modifying them for your needs This can save you a great deal of work over creating a project from scratch [High Performance Networking, Computing, Communication Systems, and Mathematical Foundations](#) Yanwen Wu, Qi Luo, 2010-03-31 This volume constitutes the refereed proceedings of the International Conference on High Performance Networking Computing and Communication Systems and the International Conference on Theoretical and Mathematical Foundations of Computer Science ICHCC ICTMF 2009 held in

Sanya Hainan Island China in December 2009 The 15 revised full papers presented were carefully reviewed and selected out of 60 submissions They range on the various aspects of advances in High Performance Networking Computing Communication Systems and Mathematical Foundations

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