

The Learn Spring Security Course Baeldung

Mastering Secure Java Applications Spring Microservices in Action Generative AI Security Artificial Intelligence and Machine Learning Mastering Software Architecture Artificial Intelligence in Architecture and the Built Environment Introduction to Engineering Developer Hegemony A Simulation Framework for Function as a Service Sustainable Development in AI, Blockchain, and E-Governance Applications Joyanta Banerjee John Carnell Ken Huang Khalid S. Soliman Michael Carducci Michal Sourek Dr. Darius Gnanaraj Solomon Erik Dietrich Manner, Johannes Kumar, Rajeev Mastering Secure Java Applications Spring Microservices in Action Generative AI Security Artificial Intelligence and Machine Learning Mastering Software Architecture Artificial Intelligence in Architecture and the Built Environment Introduction to Engineering Developer Hegemony A Simulation Framework for Function as a Service Sustainable Development in AI, Blockchain, and E-Governance Applications *Joyanta Banerjee John Carnell Ken Huang Khalid S. Soliman Michael Carducci Michal Sourek Dr. Darius Gnanaraj Solomon Erik Dietrich Manner, Johannes Kumar, Rajeev*

elevate your java security skills for the modern cloud era key features understanding zero trust security model for java practical cloud security strategies for developers hands on guidance for secure java application development description this book offers a comprehensive guide to implementing zero trust security principles cloud based defenses and robust application development practices through practical examples and expert advice readers will gain the skills needed to design and develop secure java applications that easily can tackle today s cyber threats it builds focus on securing your source code through analysis vulnerability detection and automation it also ensures the safety of your runtime environment for managing traffic and enables multi factor authentication while addressing data security concerns with encryption anonymization and cloud based solutions it also uses tools like opentelemetry for real time threat detection it manages sensitive information securely with vault integration and explores passwordless authentication reference architectures secure coding patterns and automation practices are also provided to aid implementation by the end of this book you ll be well equipped to build secure java applications with confidence and deliver applications that are robust reliable and compliant what you will learn implement zero trust principles in java applications secure java apps in cloud environments like aws gcp and azure develop applications with security best practices from the ground up understand and mitigate common security vulnerabilities in java apply modern security tools and

techniques in java development who this book is for this book is ideal for java developers and software architects seeking to enhance their security expertise particularly in cloud environments table of contents 1 secure design principles for java applications 2 analyzing and securing source code 3 securing java runtime 4 application data security 5 application observability and threat protection 6 integration with vault 7 established solution architecture and patterns 8 real world case studies and solutions 9 java software licensing model 10 secure coding tips and practices

summary spring microservices in action teaches you how to build microservice based applications using java and the spring platform purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology microservices break up your code into small distributed and independent services that require careful forethought and design fortunately spring boot and spring cloud simplify your microservice applications just as the spring framework simplifies enterprise java development spring boot removes the boilerplate code involved with writing a rest based service spring cloud provides a suite of tools for the discovery routing and deployment of microservices to the enterprise and the cloud about the book spring microservices in action teaches you how to build microservice based applications using java and the spring platform you ll learn to do microservice design as you build and deploy your first spring cloud application throughout the book carefully selected real life examples expose microservice based patterns for configuring routing scaling and deploying your services you ll see how spring s intuitive tooling can help augment and refactor existing applications with micro services what s inside core microservice design principles managing configuration with spring cloud config client side resiliency with spring hystrix and ribbon intelligent routing using netflix zuul deploying spring cloud applications about the reader this book is written for developers with java and spring experience about the author john carnell is a senior cloud engineer with twenty years of experience in java table of contents welcome to the cloud spring building microservices with spring boot controlling your configuration with spring cloud configuration server on service discovery when bad things happen client resiliency patterns with spring cloud and netflix hystrix service routing with spring cloud and zuul securing your microservices event driven architecture with spring cloud stream distributed tracing with spring cloud sleuth and zipkin deploying your microservices

this book explores the revolutionary intersection of generative ai genai and cybersecurity it presents a comprehensive guide that intertwines theories and practices aiming to equip cybersecurity professionals cisos ai researchers developers architects and college students with an understanding of genai s profound impacts on cybersecurity the scope of the book ranges from the foundations of genai including underlying principles advanced architectures and cutting edge research to specific aspects of genai security such as data security model

security application level security and the emerging fields of llmops and devsecops it explores ai regulations around the globe ethical considerations the threat landscape and privacy preservation further it assesses the transformative potential of genai in reshaping the cybersecurity landscape the ethical implications of using advanced models and the innovative strategies required to secure genai applications lastly the book presents an in depth analysis of the security challenges and potential solutions specific to genai and a forward looking view of how it can redefine cybersecurity practices by addressing these topics it provides answers to questions on how to secure genai applications as well as vital support with understanding and navigating the complex and ever evolving regulatory environments and how to build a resilient genai security program the book offers actionable insights and hands on resources for anyone engaged in the rapidly evolving world of genai and cybersecurity

the two volume proceedings set ccis 2299 and 2300 constitutes the refereed proceedings of the 43rd ibima conference on artificial intelligence and machine learning ibima ai 2024 held in madrid spain in june 26 27 2024 the 44 full papers and 18 short papers included in this book were carefully reviewed and selected from 119 submissions they were organized in topical sections as follows part i artificial intelligence and machine learning information systems and communications technologies part ii artificial intelligence and machine learning software engineering computer security and privacy

as the pace of evolution in technology continues to accelerate the field of software architecture grapples with ever increasing complexity uncertainty and risk while numerous patterns and practices have emerged as potential approaches to solving the industry s most challenging problems these tools often struggle to consistently deliver on their promises and software projects fail to reach their potential with alarming frequency this meticulously crafted guide presents a deep exploration into the intricacies of crafting systems that precisely and predictably address modern challenges it goes beyond mere comprehension of architecture it encourages mastery mastery of software architecture requires much more than just technical know how the author drawing upon deep experience and unique perspectives introduces a fresh problem centric approach to the realm of software architecture to address these myriad challenges this book offers a uniquely holistic approach weaving together architectural principles with organizational dynamics environmental subtleties and the necessary tools to execute on architecture more effectively it addresses the broader contexts that are often overlooked you ll be introduced to the transformative tailor made model which provides fast design time feedback on total architectural fit and offers more deterministic outcomes without the typical and costly trial and error the tailor made model further enables a practical approach to designing evolutionary architectures this book also offers a comprehensive architect s toolbox with powerful strategies and problem solving tools to design communicate and implement architectural decisions across the

enterprise additionally it imparts invaluable insights into the art of communication as an architect seamlessly aligning visions with business goals and objectives with its rich blend of theoretical depth practical insights and actionable tools this book promises to redefine the landscape of software architecture whether you are an established architect or an aspiring one mastering software architecture is poised to enhance your expertise enabling you to confront architectural challenges with unparalleled confidence and competence what you will learn discover a comprehensive set of concepts tools models and practices that enhance the fit and reduce uncertainty in software architecture quantify and measure the impact of architectural decisions providing a clear and actionable approach to architecture effectively apply the model in diverse situations and environments while overcoming the otherwise limiting organizational realities communicate architecture effectively to both business and technical teams build consensus engender buy in and lead change across the organization who this book is for aspiring architects looking to broaden their horizons practicing architects seeking to continue to grow their skills and software engineers looking to gain insights and move up the value chain in an increasingly competitive market michael carducci delivers an invaluable guide for aspiring and seasoned software architects alike mastering software architecture blends technical mastery with strategic insights presented in a clear and engaging format this book is destined to shape the future of the field adam tornhill author of your code as a crime scene and founder of code scene bravo this is the book i wish i had when i started doing architecture migrations this volume makes clear what architectural style best fits the needs of the organization and how you can migrate from one style to another through the judicious selection of constraints i ve already put this book s teachings into practice and consider this my new go to reference for upcoming architecture assessments and migrations jerome broekhuijsen whether you re a seasoned architect or just starting out this book will elevate your practice it s a must read that will take any aspiring architect from zero to hero in a very short time kevin d ornellas i m convinced you ll be better prepared for having read this book brian sletten

imagine if every architect had an apprentice who could consistently observe and understand their intentions take over routine tasks and monitor technical environmental and economic constraints this apprentice would continually improve freeing the architect to concentrate on truly creative work this book outlines a plan to turn this vision into reality it evaluates the development of artificial intelligence from its inception to the present focusing on the last two decades of applying ai in architectural design and planning the current state of architectural practice is also examined integrating architecture computer science ai robotics economics law neurobiology and philosophy the vision is built on three key premises i authentic poetic creativity that transcends parameterization and algorithmizing ii innovative learning strategies and training approaches not yet applied concerning architectural design and iii the convergence of architecture s inherent spatiality with virtual reality technology

and new theories of human thinking and intelligence poised for implementation in machine learning

the purpose of this e book is to provide details about different disciplines of engineering to students who are planning to pursue a degree in engineering and help them to decide on a career in engineering this book explores different disciplines of engineering and provides a broad background in each area basic concepts as well as a few applications related to the following disciplines of engineering are presented in this book automobile aerospace engineering civil engineering computer science engineering electrical and electronics engineering mechanical engineering and production manufacturing engineering illustrations are provided using colorful photographs having rich information details related to career opportunities and opportunities for further higher studies are available in this book the authors hope that this book will help aspiring students of engineering programs to choose the discipline of their choice

it s been said that software is eating the planet the modern economy the world itself relies on technology demand for the people who can produce it far outweighs the supply so why do developers occupy largely subordinate roles in the corporate structure developer hegemony explores the past present and future of the corporation and what it means for developers while it outlines problems with the modern corporate structure it s ultimately a play by play of how to leave the corporate carnival and control your own destiny and it s an emboldening specific vision of what software development looks like in the world of developer hegemony one where developers band together into partner firms of efficiencers finally able to command the pay respect and freedom that s earned by solving problems no one else can developers if you grow tired of being treated like geeks who can only be trusted to take orders and churn out code consider this your call to arms bring about the autonomous future that s rightfully yours it s time for developer hegemony

in the age of immediate technical expansion our world faces a multifaceted challenge ensuring the sustainability of our digital transformation governments and organizations have wholeheartedly embraced innovative technologies such as artificial intelligence blockchain and e governance but in doing so they have encountered a complex web of issues these range from cybersecurity concerns in an increasingly digitalized world to the need for intelligent systems capable of managing automation infrastructure and interconnected environments sustainable development in ai blockchain and e governance applications offers a forward thinking approach that harnesses the synergy between intelligent systems machine learning deep learning and blockchain methods it explores data driven decision making automation infrastructure autonomous transportation and the creation of connected buildings all aimed at crafting a sustainable digital future by delving into topics like machine learning for smart

parking disease classification through neural networks and the internet of things iot for smarter cities this book equips academic scholars with the tools they need to navigate the complex terrain of technology and governance academic scholars and researchers in technology governance and sustainability will find this book to be an indispensable resource it caters to those seeking a comprehensive understanding of current and future trends in the integration of intelligent systems with cybersecurity applications

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