



Consulting and Training | Reach New Heights

Course Name

Code Security Application and Efficiency

Sector Name

Information Technology

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Code Security Application and Efficiency

Course Introduction

Modern applications must balance security, efficiency, maintainability, and innovation. This course equips participants with the skills to design and develop secure, scalable, and high-performance applications while leveraging AI for smarter, data-driven systems. Participants will learn techniques to reduce vulnerabilities, improve maintainability, optimize software architecture, and apply AI-driven insights to enhance efficiency and innovation.

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Target Audience

- ✓ Software Developers and Programmers
- ✓ Application Security Engineers
- ✓ Cybersecurity Specialists
- ✓ DevOps and DevSecOps Engineers
- ✓ Software Engineers and System Architects

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Learning Objectives

- ✓ Apply best practices for secure coding to reduce exploits and increase trust.
- ✓ Design software architecture for scalability, maintainability, and performance.
- ✓ Optimize applications for efficiency and lower operational/fix costs.
- ✓ Integrate AI-driven features to enhance system intelligence and efficiency.
- ✓ Assess code and architecture to identify risks, bottlenecks, and improvement opportunities.
- ✓ Implement strategies for continuous improvement and innovation in software systems.

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Course Outline

✓ DAY 01

Foundations of Secure Coding and Application Efficiency

- ✓ Principles of secure coding and vulnerability prevention
- ✓ Common exploits and attack vectors in modern applications
- ✓ Balancing security with performance and user experience
- ✓ Best practices for maintainable and scalable code
- ✓ Aligning application efficiency with business and operational goals

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Course Outline

✓ Day 02

Software Architecture for Maintainability and Scalability

- ✓ Designing modular, flexible, and scalable architectures
- ✓ Patterns for maintainable and high-performance applications
- ✓ Microservices, serverless, and monolithic architectures: pros and cons
- ✓ Handling high-load and complex workflows efficiently
- ✓ Techniques for monitoring and optimizing application performance

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Course Outline

✓ Day 03

Code Security in Practice

- ✓ Threat modeling and secure design principles
- ✓ Input validation, authentication, and authorization best practices
- ✓ Secure APIs and data handling techniques
- ✓ Automated testing for vulnerabilities and code quality
- ✓ Reducing fix costs through early detection and preventive measures

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Course Outline

✓ Day 04

AI Integration for Smarter Systems

- ✓ Overview of AI applications in software systems
- ✓ Using AI for process automation and performance optimization
- ✓ Data-driven insights for smarter decision-making
- ✓ Enhancing system efficiency with predictive analytics and pattern detection
- ✓ Integrating AI components into secure and maintainable architectures

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Course Outline

✓ Day 05

Advanced Strategies for Efficiency, Trust, and Innovation

- ✓ Combining security, architecture, and AI for high-impact applications
- ✓ Continuous improvement and lifecycle management of secure systems
- ✓ Monitoring, logging, and analytics for ongoing optimization
- ✓ Strategies for innovation, faster deployment, and reduced operational risk
- ✓ Case studies of secure, efficient, and AI-enhanced application systems

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 21, 2026	June 25, 2026	5 days	4250.00 \$	KSA , Riyadh
Nov. 29, 2026	Dec. 3, 2026	5 days	2150.00 \$	Virtual , Online
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
March 29, 2027	April 2, 2027	5 days	4950.00 \$	Turkey , Istanbul

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