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Course Name

Code Engineering Application & Efficiency

Sector Name

Information Technology

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Code Engineering Application & Efficiency

Course Introduction

Building modern applications requires a balance of secure coding, efficient architecture, and innovative AI integration.

This course equips participants with advanced skills in code engineering to develop secure, maintainable, scalable, and high-performance applications. Participants will also learn to leverage AI for smarter systems, optimize workflows, and reduce operational and fix costs, ultimately increasing trust and reliability in software solutions.

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Target Audience

- ✓ Software Developers and Programmers
- ✓ Software Engineers
- ✓ Backend and Full-Stack Developers
- ✓ Application Developers
- ✓ Technical Leads and Development Team Leaders

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Learning Objectives

- ✓ Apply secure coding practices to minimize vulnerabilities and exploits.
- ✓ Design software architecture for maintainability, scalability, and high performance.
- ✓ Optimize application efficiency to reduce operational and fix costs.
- ✓ Integrate AI-driven components to enable smarter, data-driven systems
- ✓ Identify and remediate bottlenecks, risks, and inefficiencies in code and workflows.
- ✓ Implement strategies for continuous improvement and innovation in application engineering.

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Course Outline

✓ DAY 01

Secure Code Engineering Principles

- ✓ Fundamentals of secure coding and risk mitigation
- ✓ Common vulnerabilities in applications and preventive strategies
- ✓ Balancing security with performance and user experience
- ✓ Tools and techniques for early detection of exploits
- ✓ Reducing fix costs through proactive security practices

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Course Outline

✓ Day 02

Software Architecture for Maintainability and Efficiency

- ✓ Principles of scalable, flexible, and maintainable architecture
- ✓ Modular and component-based design patterns
- ✓ Microservices, serverless, and monolithic architectures: trade-offs
- ✓ Designing for high performance under load and complexity
- ✓ Aligning architecture with operational efficiency and business goals

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Course Outline

✓ Day 03

Code Quality, Optimization, and Monitoring

- ✓ Writing efficient, readable, and maintainable code
- ✓ Performance profiling and optimization techniques
- ✓ Automated testing, continuous integration, and code review practices
- ✓ Monitoring and logging for early detection of issues
- ✓ Reducing technical debt and operational overhead

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Course Outline

✓ Day 04

AI Integration for Smarter Applications

- ✓ Overview of AI applications in modern software systems
- ✓ Leveraging AI for process automation, predictive analytics, and pattern detection
- ✓ Integrating AI-driven features while maintaining security and efficiency
- ✓ Using AI insights to optimize workflows and application performance
- ✓ Ensuring reliability and trust in AI-enhanced systems

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Course Outline

✓ Day 05

Advanced Strategies for Secure, Efficient, and Innovative Systems

- ✓ Combining secure coding, architecture, and AI for optimized applications
- ✓ Continuous improvement and lifecycle management of applications
- ✓ Strategic approaches for innovation and operational efficiency
- ✓ Case studies of secure, high-performance, and AI-driven applications
- ✓ Building a roadmap for long-term application reliability, scalability, and trust

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 20, 2027	June 24, 2027	5 days	4250.00 $	KSA , Riyadh
Nov. 22, 2026	Nov. 26, 2026	5 days	2150.00 $	Virtual , Online
Sept. 6, 2027	Sept. 10, 2027	5 days	4250.00 $	UAE , Dubai
March 29, 2027	April 2, 2027	5 days	5950.00 $	USA , Texas

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