



Certificate Program In Software Architecture - Logistics

Duration – 80 Hours

Program Description

This program is designed to equip professionals with the knowledge and skills required to design and implement scalable, secure, and efficient software architectures tailored for the logistics domain. It bridges architectural principles with domain-specific challenges like supply chain visibility, warehouse optimization, fleet management, and real-time tracking.

Learning Goals

- Understand the fundamentals of software architecture and design patterns
- Apply architectural principles to logistics-specific challenges
- Design scalable, secure, and high-performing systems for supply chain and logistics operations
- Leverage microservices, APIs, and cloud-native solutions for logistics applications
- Gain exposure to emerging technologies like IoT, AI/ML, and blockchain in logistics software architecture
- Develop a comprehensive architecture blueprint for a logistics use case

High-Level Topics

- Foundations of Software Architecture
- Architecture Patterns & Best Practices (Layered, Microservices, Event-driven)
- Domain Analysis for Logistics (Supply Chain, Transportation, Warehouse, Last-mile Delivery)
- Integration Strategies (APIs, Middleware, Cloud Services)
- Security & Compliance in Logistics Systems
- Emerging Tech in Logistics Architecture (IoT, AI/ML, Blockchain)
- Performance, Scalability & Reliability Considerations
- Capstone Project: Architecture Blueprint for a Logistics Solution