

Software Architecture

PROGRAM OVERVIEW

The Software Architecture bILTup program is tailored for software developers poised to embrace leadership positions as architects. The essence of the software architect's role transcends mere job titles, encapsulating the comprehensive design and operational dynamics of a system.



AUDIENCE

This program is designed for experienced software developers, technical leads, and engineers who are ready to evolve into system-level thinkers and technical leaders. Ideal participants are those seeking to transition into software architecture roles and take ownership of the design, structure, and strategic direction of complex systems.



INTENDED OUTCOME

Participants will develop the architectural mindset and practical skills to design, assess, and guide the development of scalable, maintainable software systems. By the end of the program, they'll be equipped to make high-impact design decisions, align architecture with business goals, and step confidently into architect-level leadership roles.

PHASE 1: HOW TO BETTER WORK WITH ARCHITECTS

- 1. Day in the Life of an Architect:** Understand roles, skills, and daily impact of architects.
- 2. Intro to Architecture Frameworks:** Learn key frameworks like TOGAF and LeanIX.
- 3. Key Design Principles:** Apply domain- and data-driven design in practice.
- 4. Event-Driven & API-First Design:** Design agile, integrated systems with real-world patterns.
- 5. Architecture Workshop:** Refactor real use cases to align with CLIENTS' standards.

PHASE 2: DEEPENING UNDERSTANDING & EXPLORING THE ARCHITECT CAREER PATH

- 1. Roadmapping & Transition Planning:** Visualize future states using LeanIX and planning tools.
- 2. System Modeling & Solution Design:** Build models and data flows for system-level thinking.
- 3. Secure App & Data Architecture:** Address security and governance in architecture design.
- 4. Capstone Workshop:** Evaluate and improve architecture through team-based case work.

SAMPLE LEARNING EXPERIENCE	Week 1	Week 2	Week 3	Week 4
Procured Self-Paced Learning	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Customized Assessment	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Instructor-Led	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Optional Office Hours	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>
Optional Q&A	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>