



LIVE ONLINE TRAINING · NEXT BATCH DATE TO BE CONFIRMED

Java Full Stack + Cloud + DevOps + AI/ML Foundations

Don't just write code. Ship it.

Become a job-ready full-stack engineer in 144 live classes. Angular in front, Spring Boot behind it, MySQL and MongoDB underneath, AWS and GCP around it, Docker, Kubernetes and CI/CD to ship it, and AI/ML foundations on top — every topic taught with a real-time use case and practised hands-on in class.

6

Modules

144

Live classes

1.5 hrs

Per live class

216 hrs

Live training

NEXT BATCH

Collecting interest
Date to be confirmed

Live online on Zoom ·
join from anywhere

DAYS AND TIMING

To be confirmed

Tell us what suits you

FEE

To be confirmed

Shared in writing with the
batch details, before you pay



Mentor: confirmed together with the batch dates · real-time use cases for every topic

MODULE 1
Frontend UI

MODULE 2
Enterprise
Backend

MODULE 3
Databases

MODULE 4
Cloud Platforms

MODULE 5
DevOps & K8s

MODULE 6
AI/ML
Foundations

Course at a glance

Everything you need to know about the course: format, practice and support.

Course name	Java Full Stack + Cloud + DevOps + AI/ML Foundations
Total duration	144 live classes · days and start date to be confirmed
Each class	1.5 hours, live and instructor-led · timing confirmed with the batch
Total live hours	216 hours
Mode	Live online on Zoom · join from anywhere · every session recorded
Recordings	Every session recorded · 1 year from full fee payment (paid students)
Teaching style	Real-time use case for every topic, then practical hands-on in the same class
Study material	Soft-copy learning materials and module-wise FAQs
Project work	Full stack application development and end-to-end project implementation
Career support	Regular technical mock interviews, resume guidance, interview preparation, certification guidance
Mentor	Confirmed together with the batch dates

Who this course is for

A complete beginner and a working developer can both sit in the same class and get value.

Freshers and graduates

No development job needed to start. Module 1 begins with HTML, CSS and TypeScript and builds up from there.

Working Java and web developers

Add Angular, cloud, Docker, Kubernetes and CI/CD to what you already know, and ship end to end.

Testers, support and other IT roles

Move into a development role with a complete, deployed full-stack project behind you.

Developers curious about AI

Get the AI/ML and Generative AI foundations, RAG included, without leaving the Java world.

What you'll learn

Thirteen outcomes, one connected stack — each one is taught, practised and reused in the end-to-end project.

- ✓ Core Java & Advanced Java
- ✓ SQL & Database Concepts
- ✓ REST APIs & Microservices
- ✓ Angular & TypeScript
- ✓ Cloud Fundamentals (AWS & GCP)
- ✓ AI/ML Foundations
- ✓ End-to-End Project Implementation
- ✓ Object-Oriented Programming
- ✓ Spring & Spring Boot
- ✓ Front-End Development
- ✓ Full Stack Application Development
- ✓ DevOps Tools & Deployment Concepts
- ✓ Real-Time Development Scenarios

Learning & career support

What comes with every seat in the course.

- ✓ Live Classes, 1.5 Hours Each
- ✓ Practical Hands-on Sessions
- ✓ Recordings: 1 Year from Full Fee Payment
- ✓ Soft-copy Learning Materials
- ✓ Resume Guidance
- ✓ Certification Guidance
- ✓ Real-Time Use Cases for Every Topic
- ✓ Recording of Every Session
- ✓ Module-wise FAQs
- ✓ Regular Technical Mock Interviews
- ✓ Interview Preparation

YOUR MENTOR

To be confirmed

Confirmed together with the batch dates. Every topic is taught with a real-time use case, then a hands-on session.

NEXT BATCH

Collecting interest

TIME

To be confirmed

START DATE

To be confirmed

CLASS LENGTH

1.5 hours per class

— Course roadmap — 6 modules at a glance

Front end first, then the backend and data layer, then cloud and DevOps to ship it, and AI/ML foundations to finish. Every class is 1.5 hours, with a real-time use case and hands-on practice.

1

Frontend UI Development

Build responsive, tested Angular front ends in TypeScript — the screens your users will actually touch.

5 TOPIC GROUPS · 19 TOPICS

2

Enterprise Backend Development

Write modern Java and ship secure, tested Spring Boot REST APIs backed by JPA.

5 TOPIC GROUPS · 20 TOPICS

3

Database Management Systems

Design relational and document data models, and run MySQL and MongoDB side by side from one Spring Boot app.

3 TOPIC GROUPS · 11 TOPICS

4

Cloud Engineering & Platforms

Stand up compute, storage, databases and messaging on AWS and GCP — and provision all of it with Terraform.

3 TOPIC GROUPS · 12 TOPICS

5

DevOps, Containerization & Orchestration

Containerise the app, run it on Kubernetes and ship it through an automated CI/CD pipeline with monitoring.

3 TOPIC GROUPS · 12 TOPICS

6

Intelligent Systems (AI/ML Theory & Practice)

Python, classical AI and machine learning foundations, model validation, and how Generative AI and RAG systems are built.

5 TOPIC GROUPS · 14 TOPICS

How each class runs

- Concept explained with a real-time use case
- Live demonstration by the mentor
- Practical hands-on session on the same topic
- Recording shared after every class
- Module-wise FAQs and soft-copy materials

By the end you can

- Build responsive Angular front ends with TypeScript, RxJS, routing, guards and unit tests
- Design and secure Spring Boot REST APIs with JPA, Spring Security, JWT, JUnit 5 and Mockito
- Model data in MySQL and MongoDB and connect both to one Spring Boot app
- Provision AWS and GCP resources with Terraform
- Containerise with Docker, deploy on Kubernetes and ship through a CI/CD pipeline
- Train, validate and explain ML models, and understand Generative AI and RAG

MODULE 1 OF 6

Frontend UI Development

5 topic groups · 19 topics

Goal: Build responsive, tested Angular front ends in TypeScript — the screens your users will actually touch.

HTML5 & Responsive Layouts

- Semantic Tags & Structure
- Flexbox Mechanics
- CSS Grid Layouts
- Media Queries & Mobile-First Design

TypeScript Fundamentals

- Basic Types & Interfaces
- Classes & Object Concepts
- Modules & Compilers

Angular Core Architecture

- Components & Data Binding
- Structural & Attribute Directives
- Template & Reactive Forms
- Services & Dependency Injection

Advanced Angular State & Routing

- RxJS Observables & Dynamic Data Streams
- HTTP Clients & API Connections
- Router & Navigation Configurations
- Route Guards & Security Checks

Testing Frontend Applications

- Automated Testing Basics
- Angular Jasmine & Karma Setup
- Component & Service Unit Testing
- Git Integration for UI Projects

Real-time use case



Build a responsive, routed Angular screen that calls a REST API, guards a protected route and ships with unit tests.

MODULE 2 OF 6

Enterprise Backend Development

5 topic groups · 20 topics

Goal: Write modern Java and ship secure, tested Spring Boot REST APIs backed by JPA.

Core & Modern Java Mastery

- OOP Core Principles
- Java Collections Framework & Generics
- Java 8 Streams API Basics
- Lambda Expressions & Optional Type Class

Spring Boot Core Ecosystem

- Inversion of Control (IoC) Framework
- Dependency Injection Framework
- Auto-Configuration Architecture
- Application Configuration Profiles

REST API Architecture & Design

- REST Controllers & Mappings
- Request/Response DTO Management
- Global Exception Handling Systems
- Data Validations & Status Codes

Data Persistence with JPA

- Object-Relational Mapping Basics
- Spring Data JPA Repositories
- Entity Associations (@OneToMany, @ManyToOne)
- Transaction Operations Management

Enterprise Security & Automated Testing

- Spring Security Base Framework
- JWT (JSON Web Token) Security/Login Flow
- JUnit 5 Backend Architecture
- Mockito Mock Objects Strategy

Real-time use case



Design a secured Spring Boot REST API with DTOs, validation, global exception handling, JPA entities and a JWT login flow.

MODULE 3 OF 6

Database Management Systems

3 topic groups · 11 topics

Goal: Design relational and document data models, and run MySQL and MongoDB side by side from one Spring Boot app.

Relational Databases: MySQL

- Database Schema Design & Normalization
- Writing Multi-Table SQL Joins
- Subqueries & Group By Aggregations
- Database Indexing & Performance

NoSQL Architecture: MongoDB

- BSON Documents vs Tables
- CRUD Collections Operations
- Aggregation Pipelines Strategies
- Document Modeling Setup

Multi-Database Spring Connections

- Spring Boot Data Sources Routing
- Dual Database Integrations Setup
- Data Integrity and Verification Methods

Real-time use case

Model the same business data relationally in MySQL and as documents in MongoDB, then serve both from one Spring Boot app.

MODULE 4 OF 6

Cloud Engineering & Platforms

3 topic groups · 12 topics

Goal: Stand up compute, storage, databases and messaging on AWS and GCP — and provision all of it with Terraform.

Amazon Web Services (AWS) Cloud

- EC2 Compute Infrastructure
- S3 Secure Object Storage
- RDS Cloud Database Systems
- IAM Policies & Account Security

Google Cloud Platform (GCP) Cloud

- Compute Engine Server Infrastructure
- Cloud Run Container Engine Platforms
- Artifact Registry Digital Platform
- GCP Pub/Sub Real-Time Messaging Architecture

Infrastructure as Code (IaC)

- Terraform Architecture Basics
- Writing Declarative Infrastructure Configurations
- Provisioning Cloud Resources with Code
- Verification & Destroy Workflows

Real-time use case

Provision compute, storage and a managed database on AWS and GCP from Terraform code — then destroy it cleanly.

MODULE 5 OF 6

DevOps, Containerization & Orchestration

3 topic groups · 12 topics

Goal: Containerise the app, run it on Kubernetes and ship it through an automated CI/CD pipeline with monitoring.**Containerization with Docker**

- Docker Architecture & Engines
- Writing Microservice Dockerfiles
- Docker Compose Multi-Container Orchestration
- Optimizing Container Build Images

Kubernetes (K8s) Core Architecture

- Cluster Worker Nodes Configurations
- Pods & High-Availability Deployments
- ClusterIP, NodePort & LoadBalancer Services
- Persistent Volumes (PV/PVC) Storage

Enterprise DevOps Pipelines

- Automated Testing in Pipeline Platforms
- CI/CD Orchestration (GitHub Actions/Tekton)
- End-to-End Enterprise App Deployments
- Post-Deployment Monitoring Layouts

Real-time use case

Containerise the full-stack app, deploy it on Kubernetes and push every change through an automated CI/CD pipeline with monitoring.

MODULE 6 OF 6

Intelligent Systems (AI/ML Theory & Practice)

5 topic groups · 14 topics

Goal: Python, classical AI and machine learning foundations, model validation, and how Generative AI and RAG systems are built.**Python Programming Foundations**

- Python Syntax & Object Types
- NumPy & Data Manipulation Arrays
- Pandas DataFrames Structures

Classical Artificial Intelligence

- Informed vs Uninformed Searches
- Heuristic Logic Formulations

Supervised Machine Learning Theory

- Linear & Logistic Regression Models
- Decision Trees & Ensemble Model Frameworks
- Cost Functions Optimization Mechanics

Unsupervised Learning Models

- K-Means Clustering Formulations
- Principal Component Analysis (PCA) Reduction

Model Validation & Generative AI Design

- Overfitting, Underfitting, Bias-Variance Metrics
- Precision, Recall, F1 & ROC-AUC Analytics
- Generative AI Systems Fundamentals
- Retrieval-Augmented Generation (RAG) Architectures

Real-time use case

Train and validate supervised and unsupervised models on real data, then walk through how a RAG-based Generative AI system is put together.

Tools you'll work with

These are the actual tools you open and use during the course — no slides-only topics.



Your end-to-end project

One application, built module by module and shipped the way real teams ship it.



What you build

- A responsive Angular front end with routing, guards and forms, wired to a REST API
- A Spring Boot backend with DTOs, validation, exception handling and JWT security
- MySQL for relational data and MongoDB for documents, both from one app
- Automated tests on both sides: Jasmine/Karma, JUnit 5 and Mockito

How you ship it

- Cloud resources provisioned with Terraform on AWS and GCP
- Docker images and a Docker Compose setup for local runs
- Kubernetes deployment with services and persistent storage
- CI/CD pipeline with automated tests and post-deployment monitoring

— Your next step: register your interest

Tell us the days and times that suit you, and we'll contact you about suitable batch options. Registering interest does not reserve a seat or confirm a batch.

Collecting interest — next batch date to be confirmed.

Register your interest on javitatech.com with the days and times that suit you. When a batch is planned, we share the dates, timing, mentor and fee in writing before you decide.

Register your interest → www.javitatech.com

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Support after enrollment

- Live classes with a real-time use case for every topic
- Recording of every session, for 1 year from full fee payment
- Module-wise FAQs and soft-copy learning materials
- Regular technical mock interviews, resume guidance and interview preparation
- Certification guidance

Good to know

- Live online course, sessions in IST; join from anywhere
- 1.5 hours per class · days and timing confirmed with the batch
- Fee confirmed in writing before you pay
- Full policies at javitatech.com

Don't Just Write Code. Ship It.

— Team JavitaTech · www.javitatech.com