WingSlide
Your Growth Partner

JAVA FULL STACK DEVELOPMENT

Java

Contact Us

Phone Number:
+91 99860 73672

Project submitted by Wingslide Technologies in partnership with Design Shore Technologies. Branches in NZ & AUS

✓ **Job Assistance Provided**

Java Full Stack Development: Master Frontend, Backend, and Cloud Integration

Build complete end-to-end applications with our intensive Java Full Stack Development program. Designed for aspiring developers and IT professionals, this course covers the entire web development lifecycle—from crafting responsive user interfaces with HTML, CSS, JavaScript, React, and Angular to building robust backend systems with Java, Spring Boot, and Hibernate. Gain hands-on experience with SQL and NoSQL databases, design and consume RESTful APIs, and secure applications with JWT-based authentication and role-based authorization.

Advance your skills in DevOps and cloud deployment with AWS, Azure, GCP, Docker, and CI/CD pipelines while strengthening your foundation in Git, Agile workflows, and software testing. This program equips you with the technical expertise and industry practices needed to deliver scalable, reliable, and production-ready applications.

Technologies & Tools Covered by Category

- ☑ **Frontend –** HTML5, CSS3, Bootstrap, Tailwind, JavaScript (ES6+), React.js, Angular

- ☑ **Version Control –** Git, GitHub

- ☑ **Backend –** Java Core, Spring Boot, Hibernate, JPA

- ☑ **Databases –** MySQL, PostgreSQL, MongoDB

- ☑ **APIs & Security –** RESTful APIs, JSON, JWT Authentication, Swagger / OpenAPI

- ☑ **DevOps & Cloud –** Maven, Gradle, AWS (EC2, RDS, S3, Elastic Beanstalk), Azure, GCP, Docker, GitHub Actions, Jenkins

- ☑ **Testing –** JUnit, Mockito, Spring Boot Test, Jest, Jasmine, Karma, Postman

<u>COURSES DETAILS</u>

1. Introduction to Full Stack Development

- Introduction to Full Stack Development?
- Role of a Full Stack Developer
- Understanding Web Architecture (Client, Server, Database)
- Overview of the Java Full Stack Tech Stack
- SDLC, Agile, and Git Workflow Overview

2. Front-End Development

- HTML5 & CSS3
  - Semantic Tags, Flexbox, Grid
  - Responsive Web Design & Media Queries
  - CSS Frameworks: Bootstrap / Tailwind
- JavaScript (ES6+)
  - Variables, Functions, Arrow Functions
  - Objects & Arrays, Destructuring
  - DOM Manipulation, Events
  - Promises, Async/Await

✅ React.js

- JSX, Functional Components
- State, Props, Events
- React Hooks (useState, useEffect, useContext)
- React Router
- Axios for API calls
- Form handling & validation
- Project Structure & Best Practices

✅ Angular

- Angular CLI, Folder Structure
- Components, Modules, Services
- Two-way Binding, Directives, Pipes
- Reactive Forms & Template Forms
- Routing & Navigation
- HttpClient for REST APIs
- Dependency Injection
- Observables & RxJS

3. Version Control Systems

✅ Git: init, commit, push, pull, branching

✅ GitHub collaboration & pull requests

✅ Merge conflicts and resolution

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**ONLINE
OR
OFFLINE**

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4. Backend Development – Java + Spring Boot + Hibernate

✅ Java Core

- OOP Concepts: Inheritance, Abstraction, Polymorphism
- Collections, Exception Handling
- Lambda Expressions & Streams

✅ Spring Boot

- Spring Boot Annotations & Architecture
- REST Controllers, Services, Repositories
- Request Mapping & Validation
- Exception Handling
- Spring Boot Logging (SLF4J)

✅ Hibernate & JPA

- ORM Fundamentals
- One-to-One, One-to-Many, Many-to-Many
- JPQL, Native SQL
- Lazy vs Eager Loading
- Transactions, Entity Lifecycle

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5. Database Management (SQL & NoSQL)

- ✅ SQL – MySQL/PostgreSQL

  - Schema Design, DDL, DML
  - Joins, Subqueries, Indexes, Views
  - CRUD Integration via Hibernate/JPA

- ✅ NoSQL – MongoDB

  - NoSQL vs SQL
  - Documents, Collections
  - MongoDB Compass / Atlas
  - Spring Boot + MongoDB integration

6. Building and Consuming APIs

- ✅ RESTful API design

- ✅ JSON Payload structure

- ✅ API Versioning & Naming conventions

- ✅ JWT Authentication (Login, Signup, Tokens)

- ✅ Role-based Authorization

- ✅ Swagger / OpenAPI Documentation

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7. DevOps and Cloud Deployment

- ✅ Build Tools
    - Maven / Gradle setup

- ✅ Cloud Deployment
    - AWS: EC2, RDS, S3, IAM, Elastic Beanstalk
    - Azure: App Services, Azure SQL, Blob Storage
    - GCP: Compute Engine, Firebase Hosting, Cloud Run

- ✅ Docker (Basics)
    - Dockerfile, Docker Compose
    - Containerizing Spring Boot Apps

- ✅ CI/CD Basics
    - GitHub Actions
    - Jenkins (Optional)

8. Testing

- ✅ Backend Testing
    - JUnit, Mockito
    - Spring Boot Test, MockMvc

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ONLINE

✓ Frontend Testing

- React: Jest, React Testing Library
- Angular: Jasmine, Karma

✓ API Testing

- Postman collections & environments
- Load testing overview (JMeter - optional)

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Ready to Take Your Java Full Stack Development to the Next Level?

🌟 **Join the program today and turn your passion into a rewarding career!**

Why Choose Wingslide ?

✅ **Hands-On Learning:** Build real-world full stack applications by developing responsive UIs with React and Angular, integrating robust backends with Java Spring Boot and Hibernate, and deploying to cloud platforms like AWS, Azure, and GCP.

✅ **Industry-Standard Tools:** Gain expertise in modern tools like HTML5, CSS3, JavaScript, React, Angular, Spring Boot, Hibernate, MongoDB, Docker, Git, and Postman.

✅ **Advanced Concepts:** Learn to design RESTful APIs, secure applications with JWT authentication, implement CI/CD pipelines, containerize apps with Docker, and deploy on leading cloud platforms. Strengthen your expertise in testing, DevOps, and scalable architecture to become a job-ready full stack developer.

Start your advanced Java Full Stack Development training at Wingslide to master the skills needed to anticipate, counter, and neutralize complex threats in any environment.

At Wingslide, we prepare developers to build scalable, secure, and production-ready applications with modern frontend, backend, database, and cloud technologies - mastering the complete Java Full Stack lifecycle.

📞 **+91 99860 73672**

📞 **080 408 22332**

✉️ **info@wingslide.com**

🌐 **www.wingslide.com**

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