

PRISTIENT ORBIT

Java Full-Stack Developer Program

Spring Boot | React | Microservices | Cloud Deployment

Full Stack Development

Beginner to Advanced

8 Weeks

4.9

RATING

2000+

STUDENTS

\$299

COURSE FEE

About the Program

Comprehensive Java Full-Stack training program designed to build complete web development skills. Covers backend development with Java, Spring Boot, and databases, along with frontend development using React. Learn to build, connect, secure, and deploy full-stack applications with real-world projects and live mentorship.

DURATION

8 Weeks

LEVEL

**Beginner to
Advanced**

RATING

4.9 / 5.0

STUDENTS

2000+

Technology Stack

Backend

- Java
Core language, OOP, Streams
- Spring Boot
REST APIs, Security, DI
- Hibernate / JPA
ORM, Query optimization
- REST APIs
API design, HTTP protocols
- JWT
Token-based authentication

Frontend

- React.js
Components, Hooks, State
- JavaScript
ES6+, Async programming
- HTML / CSS
Responsive layouts, Flexbox
- State Management
Context API, Redux basics
- Form Handling
Validation, controlled inputs

Database & DevOps

- MySQL
Relational DB, Joins, Indexing
- JDBC
Database connectivity
- Git
Version control, collaboration
- Deployment
Cloud hosting, CI/CD basics

Projects You'll Build

Full-Stack Web Application

Complete application with Spring Boot backend and React frontend

E-commerce Application

Product catalog, cart, and checkout functionality

REST API with Spring Boot

Production-grade API with authentication and CRUD operations

Frontend-Backend Integration

Seamless connection between React and Spring Boot

Learning Outcomes

✓ Develop robust backend applications using Java and Spring Boot

✓ Build dynamic frontend interfaces using React

✓ Integrate frontend with backend APIs seamlessly

✓ Implement authentication and secure applications using JWT

✓ Manage state and handle forms in frontend applications

✓ Deploy complete full-stack applications

✓ Understand end-to-end application architecture

✓ Prepare for Full-Stack Developer job roles

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Java Full-Stack Developer Program

8-Week Execution Roadmap

Intensive Preparation & Execution Plan

WEEK 1-2: Core Java Fundamentals

Goal: Build a solid foundation in Java programming language essentials.

Day 1-2

Java syntax, data types, operators, control flow

Task: Write 5 programs covering loops, conditions, arrays

Day 3-4

OOP: Classes, Objects, Inheritance, Polymorphism

Task: Design a Library Management class hierarchy

Day 5-6

Collections Framework: List, Map, Set, Queue

Task: Solve 10 problems using Collections

Day 7

Exception Handling, Multithreading basics

Task: Build a multithreaded file-reader program

WEEK 3: JDBC & Database Connectivity

Goal: Connect Java applications to relational databases.

Day 1-2

JDBC drivers, Connection, Statement, ResultSet

Task: Connect to MySQL and execute CRUD queries

Day 3-4

Prepared Statements, Transactions, Connection Pooling

Task: Build a Student Record CRUD app with JDBC

Day 5-7

Introduction to JPA & Hibernate ORM

Task: Map 3 entities and run HQL queries

WEEK 4-5: Spring Boot & REST APIs

Goal: Master Spring Boot to build production-grade REST APIs.

Day 1-2

Spring IOC, DI, Beans, Spring MVC architecture

Task: Create a Hello World Spring Boot project

Day 3-4

REST endpoints: GET, POST, PUT, DELETE + HTTP codes

Task: Build a Product Catalogue REST API

Day 5-6

Spring Data JPA, Repositories, Custom Queries

Task: Connect API to MySQL with full CRUD

Day 7

Spring Security basics, JWT token authentication

Task: Secure endpoints with JWT login/register flow

WEEK 6: Microservices Architecture Basics

Goal: Understand how enterprise systems are split into services.

Day 1-2

Microservices vs Monolith, Service decomposition

Task: Decompose an e-commerce app into 3 services

Day 3-4

API Gateway, Service Discovery, Load Balancing

Task: Wire 2 microservices via REST calls

Day 5-7

Inter-service communication patterns

Task: Implement service-to-service data exchange

WEEK 7: Frontend with React

Goal: Build modern, interactive user interfaces with React.

Day 1-2

React fundamentals: JSX, Components, Props, State

Task: Build a Task Manager UI with React

Day 3-4

Hooks: useState, useEffect, useContext, custom hooks

Task: Add real-time updates with useEffect + API

Day 5-6

React Router, global state management basics

Task: Build a multi-page SPA with protected routes

Day 7

Form handling, Validation, API integration

Task: Connect React frontend to Spring Boot API

WEEK 8: Full-Stack Integration & Deployment

Goal: Bring frontend and backend together and ship to production.

Day 1-2

Axios/Fetch API integration, CORS configuration

Task: Complete frontend-backend integration

Day 3-4

Authentication in React, Protected Routes

Task: Implement JWT-based auth flow in React

Day 5-6

Deployment strategies, Cloud hosting basics

Task: Deploy full-stack application

Day 7

Portfolio polish, Resume prep, Mock interview

Task: Record a demo walkthrough of your project

Program Highlights

Full-Stack Project

Build and deploy a complete full-stack application using Spring Boot and React with real-world scenarios.

Live Mentorship

Instructor-led sessions with real-time doubt support and code reviews every week.

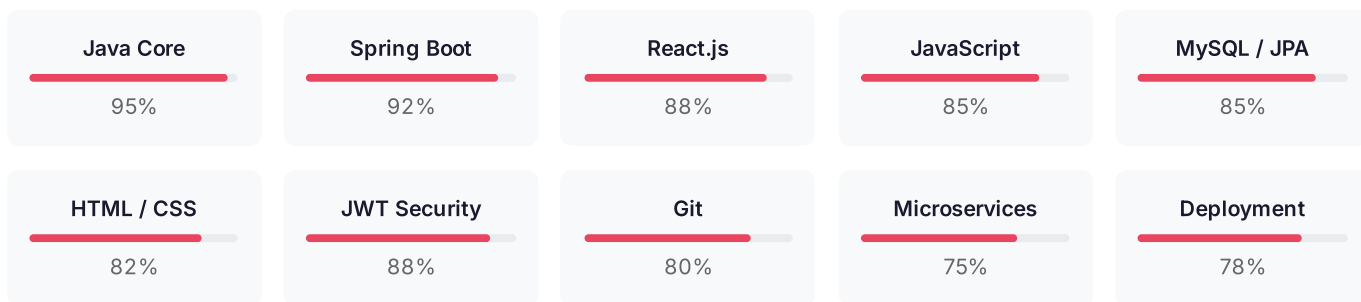
Career Readiness

Resume building, interview preparation, and portfolio guidance included.

Hands-on Development

Work on real-world frontend and backend integration scenarios from Day 1.

Core Skills Proficiency



Full Curriculum Modules

- Core Java Fundamentals
- Object-Oriented Programming (OOP)
- Collections Framework
- Exception Handling & Multithreading
- JDBC & Database Connectivity
- Servlets & JSP
- Spring Boot & REST APIs
- Microservices Architecture Basics
- Frontend Fundamentals (HTML, CSS, JavaScript)
- React Fundamentals & Component-Based Development
- API Integration (Connecting React with Spring Boot APIs)
- Authentication & Authorization (JWT, Protected Routes)
- State Management & Form Handling
- Full-Stack Application Development
- Deployment of Full-Stack Application
- Portfolio & Interview Preparation

Final Outcome (After 8 Weeks)

You will be Interview-Ready with a portfolio of real projects and deployable full-stack applications.

Java

Spring Boot

React

Full Stack Development

APIs

Web Development

Instructor

Pristient Orbit Team - 8+ years of experience in Java development, full-stack systems, and enterprise application design.