



Skillup Bharat

Training | Placements | Outsourcing

JAVA FULLSTACK



About Company

SkillUp Bharat is a leading platform that offers technical and non-technical courses designed to prepare students for industry challenges.

We provide internships, hands-on training, and placement opportunities, ensuring learners gain practical experience through real-time projects. Our programs focus on enhancing both technical and soft skills, making students job-ready.

WHY TO CHOOSE US!

1. Industry-Relevant Courses
2. Hands-On Internships
3. Real-Time Project Experience
4. Placement Support

Java FullStack Syllabus

Irrespective of their domain

Description

Skillup Bharat offers comprehensive Java Fullstack training designed to equip students with in-demand skills for the modern tech industry. The course covers both front-end and back-end development, ensuring a complete understanding of fullstack development. Learners start with core Java programming, mastering object-oriented principles, data structures, and algorithms. This foundational knowledge is essential for building dynamic web applications.

In addition to Java, the course includes front-end technologies such as HTML, CSS, and JavaScript, enabling learners to create responsive and interactive user interfaces. Popular frameworks like Angular or React are also part of the curriculum, providing practical experience in building client-side applications.

On the back-end, the training delves into advanced Java topics like Spring, Hibernate, and RESTful services, helping students develop scalable, robust server-side applications. Database management, using MySQL or MongoDB, is integrated to give a complete fullstack experience. This holistic approach ensures that students are job-ready, with hands-on experience in all facets of fullstack development.

Expectations and Goals

By the end of this course, students will be able to:

- Master Fullstack Development
- Hands-On Project Experience
- Proficiency in Frameworks and Tools
- Understanding of Software Development Lifecycle (SDLC)
- Comprehensive Knowledge Base
- Problem-Solving Skills
- Collaboration and Communication
- Adaptability to New Technologies
- Completion of Assignments and Projects

Complete Java FullStack Study Plan 2024

Module 1: Introduction to Java

- Introduction to Java programming language
- Setting up Java Development Environment (JDK, IDE)
- Object-oriented programming concepts(Classes, Objects, Inheritance, Polymorphism, Abstraction, Encapsulation)

Module 2: Front-end Development

-  HTML, CSS, and JavaScript
- HTML5 and its features
- CSS3 for styling web pages
- Introduction to JavaScript and its role in web development
- DOM manipulation using JavaScript
- Asynchronous JavaScript (AJAX)
- AngularJS

- Introduction to AngularJS
- AngularJS Directives, Controllers, and Services
- AngularJS Directives, Controllers, and Services
- Two-way data binding and dependency injection

Module 3: Back-end Development

- Java Spring Framework
- Introduction to the Spring framework
- Spring Boot for rapid application development
- Building RESTful APIs with Spring MVC
- Data access with Spring Data JPA
- Spring Security for authentication and authorization

- Database Management
- SQL
- Relational Database Management Systems (RDBMS)
- SQL basics and advanced queries
- Database design and normalization
- JDBC for database connectivity in Java applications

- MongoDB
- Introduction to NoSQL databases
- MongoDB basics and advanced queries
- Integrating MongoDB with Java applications

Module 4: Full Stack Development

- RESTful Web Services
- Understanding REST architecture
- Building RESTful web services
- Consuming RESTful services in the front end
- Version Control System



- Introduction to Git
- Working with Git repositories
- Branching and merging strategies
- Deployment and Containerization
- Deploying Java applications to servers
- Introduction to containerization (Docker)
- Dockerizing Java applications

Module 5: Testing and Quality Assurance

- Unit testing with JUnit
- Integration testing in a Java environment
- Continuous Integration and Continuous Deployment (CI/CD)
- Code quality tools (SonarQube, Checkstyle)

Module 6: Project Work

- Building a full-stack application from scratch
- Integrating front-end and back-end components
- Implementing security features
- Testing and deploying the application
- Real time capstone projects

Module 7: Industry Best Practices

- Coding standards and conventions
- Code reviews and collaboration
- Documentation practices
- Performance optimization and troubleshooting

Module 8: Emerging Technologies

- Introduction to cloud platforms (AWS, Azure, or Google Cloud)
- Microservices architecture
- Serverless computing
- Exploring the latest trends and technologies in Full Stack Development



CONTACT US!



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THANK YOU

Master New Skills, Unlock
New Opportunities!