

## Java FullStack

**Duration - 20 Days / 160 Hours**

### Program Description

The Java FullStack Program equips learners with the skills and knowledge to develop complete applications, from front-end to back-end, using Java and modern web technologies. Covering essential topics such as data structures, databases, software engineering, and version control, the program also includes practical experience in frontend development, backend technologies, and cloud computing. Learners will gain hands-on exposure to industry-relevant tools and practices, preparing them for a career in full-stack development.

### Learning Goals

- ❖ Understand and apply data structures, algorithms, and relational database concepts in software development.
- ❖ Gain proficiency in source code management using Git for version control.
- ❖ Develop responsive web applications using HTML, CSS, JavaScript, and React for the frontend.
- ❖ Master backend development with Core Java, Postgres, Couchbase, and Flyway.
- ❖ Build and deploy applications using the Spring Framework, leveraging the principles of software engineering and testing methodologies like BDD.
- ❖ Implement DevOps practices for continuous integration/continuous delivery (CI/CD) and learn cloud computing fundamentals.
- ❖ Apply industry-standard testing techniques to ensure software quality across all development stages.

### Course Topics

- ❖ Data Structures & Algorithms
- ❖ RDBMS Concepts
- ❖ Software Engineering
- ❖ Source Code Management using Git
- ❖ HTML, CSS & JavaScript
- ❖ Frontend – React
- ❖ Database
- ❖ Core Java
- ❖ BDD
- ❖ Spring Framework
- ❖ Testing
- ❖ DevOps
- ❖ Cloud Computing