



Smoothstack Candidates undertake a hands-on course that fully prepares them for becoming a full stack software developer as part of an enterprise agile team.

The course is laser-focused on practical knowledge of how to write full-scale enterprise apps both on the front- and back-end. We empower candidates to analyze and solve real-world scenarios.

# Java Full Stack Curriculum



## Core Java

- Installation: Java SDK to Control Statements
- GIT Installation and overview to Abstract classes
- File I/O to Multithreading
- Synchronization, Annotations, J-Unit

## JavaScript & UI Fundamentals

- JavaScript Overview to DOM Manipulation
- AJAX Introduction to Jquery
- SASS to Unit Testing (Mocha/jest)

## SQL & NoSQL

- Mysql Database to Normalization - 1NF/2NF/3NF
- Scalar functions to Triggers
- NoSQL vs SQL to High Availability
- Writing Java Code to MongoDB

## AWS

- Linux to High level Git Webhook
- AWS to S3
- High-level Elasticity in the cloud to Monitoring overview with Cloud Watch
- Containers VS VM to AWS ECS, EKS

## Spring, REST and Microservices

- Maven build and deploy
- Spring framework Layering applications
- Spring Boot Microservices
- ORM and JPA and Spring Data
- Spring Security

## Angular

- Typescript / vs Plain JS
- Services & DI, CLI
- Angular & Data binding
- Angular components, Collecting Data, Form and validations
- Display Data with Pipes, Unit testing
- Template Driven vs Angular Forms
- Reactive Forms in Context
- Redux pattern in Angular
- Advanced Http Requests and Error Handling
- Linting & other tools

## Node & React JS

- Introduction to Node to File System
- Express to Promises
- React Fundamental to Lifecycle
- Data Flow and Architecture to Redux
- Tools to Linting

