Job Bootcamp 2024

Java Spring boot

Success starts with a decision to try.

About
Job Bootcamp

| Built to help you #SwitchToDreamJob

Job bootcamp is a one-stop solution for working professionals to land their dream job. We cater to Recent graduates and final year students accepted too.

Ankush
Singla

| Co-Founder & Instructor

Ankush holds a Bachelor's degree in Computer Science from India's most premier institute – IIT Delhi and a Master's degree in Computer Science from Stanford University.

He is a coding enthusiast and has worked with bigwigs like Amazon & Facebook in the past.

Our **Impact**

1 Lac+
Learners
taught so far

128%
Avg Increase
in salary

32 LPA
Highest CTC

1200+
Hiring
partners

90%
Placement
Record

11 Crores+
Problem
Submissions

Doubt **Support**

We have developed a very scalable solution using which we are able to solve **7000+ doubts** every single day with the help of our **2000+ TAs** on the platform itself with an average rating of 4.8 out of 5.

Live Projects

Build Industry standard end-to-end Mini, Major and Capstone projects.

Get an Industry
Recognised Certificate

Get awarded with an industry-recognised certificate as you complete your Boot camp.

Be a part of the learning community:

Performance tracking team and Slack groups to connect with your peers.

Live Mentorship:

Interact live 1:1 with industry experts and schedule mock interviews with mentors.

Programme **Overview**

Course Overview

The purpose of this course is to learn Web Development with technologies like Spring Boot, reactjs and advanced HTML & CSS etc., which will enable you to create effective and responsive web applications for all intents and purposes. Additionally, it will teach you how to create servers, work with databases, and develop scalable, robust systems using System Design Techniques.

Program
Details

⏱ Program Duration
9 Months

🏷 Eligibility Criteria
Recent Graduates and Final Year Students and Working Professionals

Admission Process

Step 1:
Complete your Coding bootcamp application

Step 2:
The profile is reviewed by our admissions team.

Step 3:
Connect for a live 1:1 counseling session to understand whether this course is a right fit for you.

Step 4:
Reserve your seat.

Content
Delivery

Structured

Thoughtfully designed curriculum for graduates, final year college students and working professionals to help them emerge as confident tech professionals.

Blended delivery

Here, content is released every week followed by pre-recorded videos, 1:1 doubt resolution & live webinars.

Industry-relevant

Industry-tested curriculum vetted by IT and Stanford alumni to make you job ready.

Hands-on

Projects and assignments designed to implement concepts.

Course **Module**

Front end Web Development with React

Learn the best practices of converting data to a graphical interface, through the use of HTML,CSS,and JavaScript.
Build amazing user intefiaces or UI components using React library.

Backend web development with Spring Boot

Learn the essential Spring concepts, RESTful API development, data manipulation, security, microservices, and JUnit testing.

Introduction to Programming

Learn the basics of the most popular programming languages and become an expert in the core fundamentals of programming.

Data Structures and Algorithms

Data structures and algorithms is all about organising the information and finding the most efficient approach to solve a problem. Learning these concepts will in turn help you to improve your problem-solving skills and solve any real-world problems using technology.

Interview Preparation - Aptitude

This module will enhance your Quantitative Aptitude, Logical Reasoning, Verbal Ability and Data Interpretation skills and conquer the aptitude round of the interviews.

Operating System

This module will help you prepare for the questions asked on Operating systems in software engineering interviews, with the unique perspective to view operating systems in three parts: Virtualization, Concurrency and Persistence. This module also includes, demonstrations to aid learning and to map theoretical concepts to Linux OS.

Database Management System (DBMS)

This DBMS module covers fundamental concepts such as Data, Database, DBMS, ER diagrams, Relational Models, ACID properties, SQL, Normalization. This module also introduces you to advanced topics like Transactions, Indexing, NoSQL databases and database optimization. Data is an important part of any software and there are many opportunities for people having the skills to work on data. The DBMS module makes you ready for job positions requiring database and SQL knowledge such as business analyst, data analyst, software engineer, SQL developer, data scientist for companies such as Oracle, Google, Amazon etc..

System Design

Learn how to create efficient large scale applications through our System Design course which covers core concepts of architectural patterns, required application characteristics, database optimization, networking, security for strong foundations. The module covers real-life use cases in detail, assignments for practical implementation of learned concepts, and gives a sneak peek of the interview process.

Course **Outcome**

| Upskill with latest industry practices and get your first tech job

| Switch to IT sector-(People from different domain)

| Switch to product based organisation

| Build live projects with industry mentors

Placement after the course

Himanshu, 32 LPA
Company : **Amazon**

Rahul Singhla, 32 LPA
Company : **Cadence**

Gouri Hegde, 25LPA
Company : **Paypal**

Rutresh, 20 LPA
Company : **Quotient Technology**

Supratik De, 18.5 LPA
Company : **Kronos**

Srinidhi, 18 LPA
Company : **Narvar**

Shubham, 14.5 LPA
Company : **Mobelium**

Siddhant, 14 LPA
Company : **Vymo**

Avinash, 13.5 LPA
Company : **Samsung**

Tools and Techniques

HTML5

CSS3

JS

B

spring boot

JUnit

spring MVC

MySQL

REST API

Redux

webpack

REACT JS
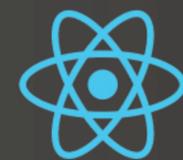
spring SECURITY

spring

Projects

Music Player

Build and style a music player like Spotify/Youtube Music using HTML and CSS

Stock Market Analysis

A project which allows users to add different stocks to their portfolio and get real-time data on their stocks using API, which automatically updates after a few sec.

iPod

Build a clone of iPod nano 5th gen

PhotoFolio

An online photo album app that allows users to upload, organise, and share their digital photos.

BusyBuy

A web-based application that allows users to browse and purchase products online.

Projects

Movie Booking Application

Building a Mini Project using restful web service in Spring Boot.
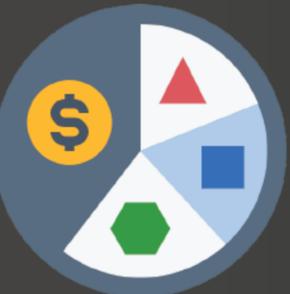
Expense Manager

Building a Mini Project using Restful Web Services, Hibernate and Relationship.

E-voting Application

Building a Mini Project using Restful Web Services, Spring Data JPA, JPQL and Named Query.

Secure Online Banking Application

Building a Mini Project using Restful Web Services, Spring Data JPA, and Spring Security

Ecommerce Application

Building an end to end Ecommerce Project in Spring Boot using Rest API, Spring Data, Microservice architecture and Security.

Detailed **Curriculum**

Introduction to Programming

Topics
Basics of Programming
Loops and Functions
Arrays
Strings and 2D Arrays
Problem Solving Techniques
Object-oriented programming
Linear Data Structures
Trees
Advanced Data Structures

Detailed **Curriculum**

| Introduction to Programming

Topics
Dynamic Programming

| Frontend Module

Topics
Getting started with Basics
Introduction to HTML
More on HTML
Forms
Intro to CSS

Detailed **Curriculum**

| Frontend Module

Topics
Styling with CSS
Starting with Resume project
Flex
Responsive designs
Completing Resume
Animations and 3D space
Bootstrap
Major Project

Detailed **Curriculum**

Frontend Module

Topics
Starting with JavaScript
Fundamentals of JavaScript
Loops, Arrays, Function & Objects
Working of JS
Functions in JS
oop in JS
ES6 Classes
DOM Manipulation
Mini-project: Quiz Game

Detailed **Curriculum**

Frontend Module

Topics
Asynchronous JavaScript
Modules in js
Intro to jQuery
Event handling in jQuery
Intro to Git & Branches
Git Workflow

Detailed Curriculum

| **Backend Module with Spring Boot**

Topics

Introduction to Spring Boot

Dependency Injection

Bean Scope

Bean Scope Life Cycle

Spring Annotations

MVC Core Principles

MVC and Web

Rest API: Get and Post

Rest API: Put & Delete

Detailed **Curriculum**

| Backend Module with Spring Boot

Topics

Introduction to Spring Boot

REST Template

Hibernate and CRUD operation

Hibernate and Relationships

Project

Spring Data JPA and Queries

Project

Introduction to Spring Security

User Authentication and Authorization

Detailed **Curriculum**

| **Backend Module with Spring Boot**

Topics
Password Security and Session Management
Spring Security and Advanced Topics
Project
Spring Boot Actuator and Dev Tools
Logging and Metrics
JUnits Testing
Microservice
Capstone Project

Detailed **Curriculum**

| **React Module**

Topics
Intro to React
Learning JSX
Score-Keeper App
Create-React-App
React Components - I
React Components - II
Styling in React
Component Lifecycle Methods
React Hooks

Detailed **Curriculum**

| React Module

Topics
Firebase 9
CRUD with Firebase & Querying Data
React Router v6
Context API
Redux in React: Intro
Store, Action, Reducers
Thunk Middleware
Redux Toolkit
ADVANCED Redux

Detailed **Curriculum**

| Interview Preparation - Aptitude

Topics
Numbers
Averages and Mixtures
Arithmetic and Word Problems
Counting
Time, Speed and Distance
Reasoning
English
Data Interpretation
Miscellaneous Topics

Detailed **Curriculum**

| Introduction to Operating System

Introduction to OS

Process Management

Memory Management

Concurrency

Storage Management

Case Study: Linux OS

Detailed **Curriculum**

Introduction to DBMS

Topics

Introduction to DBMS

Data Modeling

Entity-Relationship Model

Relational Model

SQL

Normalization

Transactions

Indexing

Classification of Databases

Detailed **Curriculum**

| **Introduction to DBMS**

Topics
NoSQL Databases
Database optimization

| **Introduction to System Design**

Topics
Introduction
Architectural patterns
Application characteristics I
Application characteristics II

Detailed **Curriculum**

| Introduction to System Design

Topics

Application characteristics III

Database

Database Optimization

Communication

Web Applications

Servers and security

Real Life Use Cases

Distributed web crawler

Global chat service : Messenger

Detailed **Curriculum**

| Introduction to System Design

Topics

Video streaming service (Youtube)

File storage and sharing system(Dropbox)

Global ride sharing system(Uber)

Practice projects

Mock interview sessions