

AlgoCamp

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## Backend in SpringBoot

APPLY COUPON: SPRINGBOOTThis live course is designed for complete beginners as well as experienced developers who want to take their skills to the next level by mastering backend development with Java and Spring Boot.



Valid for 398 days

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What's included

- 256 lessons
- 1 Trial Lesson

### Other Pricing Plans

## Syllabus

Sections • 256 lessons

|     |  |
|-----|--|
| O1  | Introductory Session (Expand every row for more details..)   |
|     | 1 lesson   |
| O2  | Maven   Gradle   Bazel (Google's build system) [Live] [Trial]  |
|     | 1 lesson 1 Trial   |
| O3  | Java Refresher [Recorded]  |
|     | 12 lessons   |
| O4  | Solid Principles  [Recorded]                    |
|     | 5 lessons  |
| O5  | Builder Design Pattern  [Recorded]              |
|     | 2 lessons  |
| O6  | How Backend Architecture Works ?  [Live]        |
|     | 1 lesson   |
| O7  | Introduction to Databases and RDBMS [Recorded]   |
|     | 7 lessons  |
| O8  | Functional Dependency and Normalisation [Recorded]   |
|     | 11 lessons   |
| O9  | Twitter DB Design and DB Indexing  [Recorded] |
|     | 5 lessons  |
| O10 | SQL Queries with MySQL [Recorded]  |
|     | 27 lessons   |
| O11 | AirBnB DB Design Session  [Live]              |
|     | 2 lessons  |
| O12 | Transactions and ACID in RDBMS with MySQL [Recorded]   |
|     | 18 lessons   |
| O13 | MongoDB [Recorded]   |

|    |   |
|----|---|
|    | 24 lessons  |
| 14 | Projects with Gradle   Gradle CLI   Jar & FatJar  [Live]<br>1 lesson     |
| 15 | What on earth is Spring Boot ?    Spring Initialiser [Live]<br>1 lesson  |
| 16 | Rest APIs   CRUD [Live]<br>1 lesson 3 attachments   |
| 17 | Writing a basic Rest API in Spring Boot  [Live]<br>1 lesson              |
| 18 | Beans   Dependency Injection   Inversion of Control   [Live]<br>1 lesson  |
| 19 | Creating Annotations   Aspect Oriented Programming [Live]<br>1 lesson   |
| 20 | MVC   Models   Repositories   Services   Controllers [Live]<br>1 lesson   |
| 21 | High Level Design Of Major Project – Uber Backend  [Live]<br>2 lessons |
| 22 | Spring Data JPA   Hibernate   JDBC [live]<br>1 lesson   |
| 23 | Setting up Spring Data JPA configurations [Live]<br>1 lesson  |
| 24 | Annotations   Lombok   Component   Service   Repository<br>1 lesson   |
| 25 | Entities   DAO   UUID<br>1 lesson   |

|    |   |
|----|---|
| 26 | Mapped Superclass   Table Per Class   Single & Joined Table   |
|    | 1 lesson  |
| 27 | Relational Mapping   1:1   1:N   M:N   Raw SQL and HQL [Live] |
|    | 1 lesson  |
| 28 | JPA Queries   RAW   Hibernate Queries   ORM methods           |
|    | 1 lesson  |
| 29 | Project 🚀 Quora App API – [Assignment]                        |
|    | 1 lesson  |
| 30 | N+1 Problem   FetchMode   SELECT   SUBSELECT   JOIN [Live]    |
|    | 1 lesson  |
| 31 | Fetch Modes   Lazy Loading   Eager Loading                    |
|    | 1 lesson  |
| 32 | Schema Migration & Version   Flyway Migrations [Live]         |
|    | 1 lesson  |
| 33 | Cascade Types   Persist   Merge   Detach   Refresh            |
|    | 1 lesson  |
| 34 | Adapter Design Pattern [LLD]                                  |
|    | 5 lessons   |





## Authors



Sanket Singh

Sanket Singh is a software engineer 2 at Microsoft and an Ex-Software Engineer at Google. Prior to Google, he has also worked at LinkedIn and Interviewbit as well. He was selected for Google Summer Of Code under Harvard university in 2019. He has mentored thousands of students in past has received great feedback for his teaching skills. He was selected as a Speaker at PyCon Italy and NDC Melbourne and is an upcoming speaker at React Nexus and Pycon MEA

## About This Course

Projects Included:

Uber application (Ride booking service)

Todo app

Quora Application

Payment Wallet app

# Frequently Asked Questions

## 1. What is the duration of the course?

8 weeks

## 2. Is there TA (Teaching Assistant) support during the course?

Yes

## 3. What are the timings of the session?

Live sessions will happen on Friday, Saturday and Sunday 8.00 PM.

## 4. What if I miss the Live class? Do I still get access to recordings?

Yes, don't worry. You will get access to all the recordings if you miss any class.

## 5. I am from a non-tech background. Can I still be a part of this course?

No, we expect you to have basic programming knowledge, although if you don't know java we will be providing java refresher recorded modules apart from live classes.

## 6. What will be the language of the course?

English

## 7. Will I be getting a certificate towards the end of the course?

Yes

## 8. Is there any community support?

Yes, you will be added to a dedicated Discord server. The server will remain even after the completion of the course.

## 9. Can I refund the course after purchasing it ?

No, there is a strict NO REFUND policy at Algomap

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AlgoCamp

LANGUAGES

About Us



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