

ANKIT DHAKA

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Summary

- Backend-focused Software Engineer with **SDE Internship** experience building production microservices on **Spring Boot** for Aakash's **Phoenix ERP** platform — **20+ REST APIs**, a sub-**100ms** pricing engine, and optimized **MySQL/Redis** data layers.
- Full-stack project builder (**RoadsideGarage**, **Easy-Parking**, live links are at project section) across **Java**, **React**, **Node.js** stacks, with production deployments and transaction-safe system design.
- Strong problem-solver with **600+ problems solved** across **Codeforces**, **CodeChef**, and **LeetCode**.

Achievements

- Competitive Programming: LeetCode Knight (1901) | CodeChef 4★ (1837) | Codeforces Expert (1663)**

Education

Indian Institute of Information Technology Allahabad

B.Tech, Electronics and Communication Engineering

Aug 2022 – May 2026

CGPA: 8.58

Prince Sr Sec. School, Sikar, Rajasthan

Class XII, CBSE Board

May 2021

98.8%

Experience

Aakash Technology Innovation Lab

Jan 2026 – June 2026

SDE Intern — Java, Spring Boot, Spring Security, Kafka, MySQL, AWS S3, Redis, Docker

Noida

- Spearheaded design and delivery of **20 production REST APIs** using Spring Boot's layered Controller–Service–Repository pattern with **Spring Security**, JWT-based auth, centralised exception handling via **ControllerAdvice**, and Bean Validation slashing API error rates by **30%** and cutting mean time-to-resolution by **40%** across 5 microservice modules.
- Overhauled **15+ high-traffic MySQL queries** through composite indexing, covering indexes, and execution-plan analysis; introduced Spring Data JPA projections and batch-fetch strategies to eliminate N+1 query patterns, yielding **30%** latency reduction and twice transaction throughput under peak load.
- Architected and delivered backend infrastructure for the **Supplementary ID process** on the Phoenix platform — designing Spring Boot service contracts with **Spring Security**-backed access control and seamless downstream integration across **2 services** — reducing end-to-end process complexity by **40%** and enabling secure, scalable student onboarding across multi-centre operations.
- Designed and owned the end-to-end **Pricing Engine** for Aakash courses within the Phoenix pricing service — engineering configurable pricing strategies backed by **Redis** caching and **Spring Cache** abstraction, optimising critical query paths to sub-**100 ms** P99 latency and directly impacting revenue across **thousands of course SKUs**.

Projects

RoadsideGarage   | *Java, Spring Boot, Spring Security, JWT, Spring Data JPA, H2, JavaScript, PostgreSQL*

- Built a full-stack, role-based garage booking platform (**Spring Boot**, **Spring Security**, **JWT**-based stateless authentication, **Spring Data JPA**) with fine-grained **RBAC** across three roles — Customer, Employee, and Admin — securing every REST endpoint by role.
- Designed a **capacity-aware auto-assignment engine** matching bookings to available employees in real time and a **geolocation-based garage search** (Haversine distance), covering the full booking lifecycle from creation through status tracking and rating.
- Implemented a layered controller/service/repository architecture with **DTO-based request validation** and RESTful API design, paired with a self-contained **JavaScript** frontend served directly from Spring Boot.

Easy-Parking   | *React, TypeScript, Node.js, Express, Prisma, MySQL, JWT, Django, PHP*

- Built and shipped a full-stack parking reservation platform (**React/TypeScript**, **Node.js/Express**, **MySQL** via **Prisma ORM**) with **JWT**-based user/admin authentication and **transaction-safe slot booking** to eliminate double-booking race conditions, migrating the original **Django/PHP** prototype to a modern REST architecture and deploying it to production on **Vercel** and **eazyparking.tech**.
- Delivered end-to-end freelance web applications across **React**, **Node.js/Express**, **Django**, and **PHP** stacks — designing relational schemas and building analytics dashboards (**Recharts/MUI X-Charts**) for occupancy, earnings, and trend reporting.

Technical Skills

Languages: Java, C++, JavaScript, SQL, Python

Java Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, Spring Cache, Spring AOP, Microservices, REST API Design, JUnit 5, Mockito

AI / ML Backend: LLMs, RAG, Agentic AI, ReAct, Vector Embeddings, Semantic Search, Prompt Engineering, Retrieval Evaluation (RAGAS), OpenAI API, LangChain4j

Databases & Infra: MySQL, MongoDB, Redis, Apache Kafka, AWS (ECS, ECR, S3, EC2, CloudWatch, ALB), Docker, Nginx, Git, GitHub Actions