

Abhishek Singh

Portfolio | [LinkedIn](#) | [GitHub](#)

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EXPERIENCE

Capgemini

Software Engineer

Feb 2025 – Present

- Developed and enhanced **RESTful APIs** using **Java**, **Spring Boot**, and **Microservices Architecture** for enterprise applications, including implementing **Spring Security** with JWT-based authentication and role-based access control.
- Contributed to the development of a **Norway-based pharmacy platform** by refactoring backend services to use **constructor injection** and introducing a reusable **DAO abstraction layer**, improving code maintainability, modularity, and testability.
- Implemented dynamic configuration management using **Spring Cloud Config**, **@RefreshScope**, and **Spring Boot Actuator**, enabling runtime configuration updates without requiring service restarts.
- Developed and maintained **unit and integration tests** using **JUnit 5** and **Mockito**, improving code quality and increasing automated test coverage for backend services.
- Collaborated in an Agile development environment using **Jira**, **Git**, **Bitbucket**, **Concourse CI/CD**, **Cloud Foundry**, and **Elastic Kibana** for sprint planning, code reviews, deployments, and production log monitoring.

PROJECTS

Trestle

TypeScript, React.js, Node.js, Express.js, PostgreSQL (pgvector), Gemini

[Live](#) | [GitHub](#)

- Built a full-stack **AI system design generator** that turns product requirements into an editable architecture diagram with sourced rationale, real-world comparisons and computed traffic and cost estimates.
- Engineered a **RAG pipeline** over a **40-entry** curated corpus using **Gemini** embeddings and **pgvector** (HNSW, cosine), with topic filtering and server-side validation to drop fabricated citations.
- Implemented a **suggest-first** change flow merging AI proposals only on per-operation approval, with **immutable versioning**, **JWT** auth, **Row Level Security** and **166 automated tests** in **GitHub Actions** CI.

ExpenseView

Reactjs, Nodejs, Expressjs, MongoDB

[GitHub](#)

- Built a full-stack web application for personal expense tracking, featuring transaction categorization and spending **pattern visualization** using Chartjs.
- Engineered a **RESTful API** with Nodejs and Expressjs, integrated with MongoDB, for efficient data management and retrieval.

TECHNICAL SKILLS

Languages : C++, Java, JavaScript, TypeScript

Web / Backend : React.js, Node.js, Express.js, Spring Boot, HTML, CSS, Tailwind CSS, MongoDB, MySQL

Technical : Object-Oriented Programming, Microservices, RESTful APIs, Data Structures and Algorithms, Database Management

Tools : Git, GitHub, Bitbucket, Jira, Confluence, Swagger, Cloud Foundry, SonarQube, Concourse CI/CD, Elastic Kibana, Postman, Figma

EDUCATION

University Of Mumbai

B.E. Computer Science and Engineering – **9.22 CGPI**

Mumbai, India

2021 – 2025

ACHIEVEMENTS

- Achieved Highest Rating of **1758** on **Leetcode** and **max 1090** on **Codeforces**
- Earned **AWS Certified Cloud Practitioner** certification ([Certificate](#))
- Selected at College level for **Smart India Hackathon 2022 and 2023**.
- Solved **1000+** problems combining [Leetcode](#), [Codeforces](#), [GeeksforGeeks](#), [CodeChef](#)

POSITION OF RESPONSIBILITY

Technical Member, GeeksForGeeks Student Chapter - TCET (August 2023 - August 2024)

Webmaster, Rotaract Club of TCET (July 2023 - July 2024)