Somya Upadhyay

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Portfolio
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Industry Experience

Development Engineer | Prospecta Software Pvt. Ltd.   **June 2023 – Present**

- Developed front-end applications using **Angular**, **Material UI**, and **Chart.js**, delivering dynamic, **responsive dashboards** such as 360 View, Hierarchy View, SLA Analytics, AI Token Analytics, and DQM View.
- Owned end-to-end feature development—for example, built **Elasticsearch-powered query** APIs and a corresponding Angular dashboard UI for the DQM View module.
- Built and integrated an **AI-powered chatbot** using **Spring AI**, with a conversational Angular UI and Spring Boot backend, enabling intelligent interactions.
- Enhanced application performance and responsiveness by implementing **NgRx + RxJS** for reactive state management and lazy loading strategies, achieving a 1.5× load time improvement.
- Designed and consumed RESTful APIs using **Java**, **Spring Boot**, and **PostgreSQL**, enabling seamless client-server communication. Contributed to a microservices architecture, leveraging **RabbitMQ** for async communication and a combined stack of **PostgreSQL** and **Elasticsearch** for high-performance data management and search functionality.
- Improved backend validation efficiency and speed by optimizing validation logic, writing robust JUnit tests, and integrating **gRPC** for selected API calls—resulting in up to 60% performance gain.
- Developed several **responsive** features for the **mobile (phone) view** of the product, ensuring consistent and intuitive UX across devices.
- Actively participated in code reviews and architectural discussions, driving system-wide performance and scalability enhancements.

Projects

Amusement Park Application

- Built a Spring Boot Application for an Online Amusement Park Application.
  Features:
- A role-based Spring Boot web application with separate functionalities for Admin and Customer users.
- Admin can update/create/delete/view activities(rides) in the amusement park and update the customer details.
- Users can register/log in, view all available activities, book tickets, view billing details, and cancel bookings.
- **Tech Stack**: SpringBoot | JAVA | Hibernate | MYSQL | Swagger | HTML | CSS | JavaScript

Licious - Clone

- Led a team of 5 developers to build a web-based platform with user authentication, admin-side CRUD for products/categories, and cart management.
- Implemented key features including sign-in/sign-up, add to cart, and a functional payment page.
- Managed team coordination, code integration, and ensured on-time delivery of all core functionalities.
- **Tech Stack:** HTML | CSS | Javascript

Achievements

MASAI - Mithali Raj Scholarship for exemplary performance
Awarded a 50% tuition waiver in recognition of outstanding skills in DSA and web development.

Technical Skills

Programming Languages: Java 8, JavaScript, TypeScript

Backend Development: Spring Boot, Elasticsearch, Hibernate, JPA, RabbitMQ, gRPC, JUnit, Spring AI

Databases: MySQL, PostgreSQL, Elasticsearch

Frameworks and Libraries: Angular, Spring Boot, Spring AI, Hibernate, Node.js, Express

Tools and Platforms: Docker, Git, Bitbucket, Firebase, Nexus, Red Hat Openshift, Linux

Education

Full Stack web development, *Masai School*	July 2022 - April 2023
Bachelor Of Education, *University of Delhi*	Nov 2020 - June 2022
B. Sc. Industrial Chemistry, *University of Delhi*	Aug 2016 - June 2019