

Soumalya Bhattacharya

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Medium: [soumalyabhattacharya6](https://medium.com/@soumalyabhattacharya6), LeetCode: [soumalyabhattacharya6](https://leetcode.com/soumalyabhattacharya6)

Work Experience

Junior Software Engineer @ Cognizant (September 2023 - Present)

- Enhancing Document Storage System for Proactive Monitoring
 - Developed a **near real time monitoring system** using Java, Spring Batch and Angular, enabling the support team to proactively address issues and **improve system performance**.
 - Implemented parallel workflows and optimized data handling, resulting in a significant **reduction in compute resource usage**.
 - Achieved a **58% reduction in average response times** to incidents and a **70% decrease in escalations** by predicting outages based on document accumulation trends.
- Optimizing API Efficiency for Cost Reduction
 - Implemented API efficiency improvements, achieving a **63% reduction in third party service calls**, leading to significant **operational cost savings**.
 - Reduced p90 response time from over 2 seconds to 510ms, enhancing user experience and service reliability.
 - Collaborated with cross-functional teams to ensure **Agile methodologies** were followed, improving project delivery timelines.

Digital Nurture Trainee @ Cognizant (March 2023 - July 2023)

- Full Stack Application Development Using Microservices
 - Frontend Development:** Created a responsive user interface using React and MUI.
 - Backend Architecture:** Developed a robust backend with Java and Spring Boot, incorporating:
 - Service Discovery:** Integrated Netflix Eureka for efficient service management.
 - Security Features:** Implemented authentication and authorization with Spring Security.
 - Resilience Patterns:** Added retry and rate limiting using Netflix Hystrix.
 - Application Gateway:** Configured an application gateway with Spring Application Gateway.
 - Load Balancing:** Enabled client-side load balancing using Spring Boot.
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Projects

Hangout

Tech Stack: *Java, Typescript, Go, Kafka, Postgresql Docker, Kubernetes, Spring Boot, Nest Js, Loki, Tempo, Prometheus, Grafana*

- Building a **cloud-native application** that allows users to find and book venues based on thier location and other factors, utilizing **microservices architecture** for scalability and maintainability.
- Managed source code through **Git Submodules**, facilitating collaboration among multiple teams and improving **version control** practices.

Repos: [Hangout - Main Repo](#)

Publications: [Part 1](#), [Part 2](#), [Part 3.1](#)

MyBondhu Portal

Tech Stack: *Javascript, React, Nodejs, Express, MongoDB*

- Developed a portal that locates nearby medical facilities, showcasing skills in **full-stack development** and **database management** and using geospatial queries with **MongoDB**.
- Implemented features that allow users to filter results based on availability of beds, doctors, ICUs, Oxygen enhancing the **user experience** during critical situations.

Repos: [Frontend](#), [Backend](#)

Skills

Tehnical Skills

Proficient in Java, JavaScript, Typescript, Python, C++, and Go; experienced with Spring Framework, React, Angular, Node.js, Docker, and Kubernetes. Well versed with Unix based Operating Systems

Soft Skills

Strong problem-solving abilities, effective communication, and a proven history of collaboration in team settings.

Educational Background

B. Tech (Electrical Engineering) [2019-2023]

- College: Techno Main Salt Lake, Kolkata
- Y GPA: 8.98