Soumalya Bhattacharya

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Work Experience

Junior Software Engineer @ Cognizant (September 2023 - Present)

1. 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.

2. 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)

1. 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.

Projects

Hangout

Tech Stack: *Java, Typescript, Go, Kafka, Postgresql Docker, Kubernetes, Spring Boot, Nest Js,*
- 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
- YGPA: 8.98