Partha Sarker

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Summary

Software Engineer with a track record of **exceeding expectations** across performance, ownership, and system reliability. Delivered critical optimizations **reducing latency by 90%** and supported production systems used by **millions**. Adept at **backend architecture**, **observability tooling**, and collaborative delivery with QA, product, and platform teams. Known for **proactive communication**, fast learning, and high-impact contributions.

Experience

Software Engineer I, MarginEdge   August 2024 – Present

Project: MarginEdge Platform

- **Optimized** core data-copying system (**Multi-Unit PMIX**), **reducing processing time from 80–100 min to 3–5 min**, improving uptime and reliability.
- **Built real-time dashboards and panic toggles** in **AWS CloudWatch**, **reducing incident triage time by 60%**.
- **Delivered** labor data selection feature (**frontend + backend**), integrated alarms, and ensured on-time delivery.
- **Developed** a data comparison and alert system for post-migration checks, proactively preventing data loss issues.
- **Collaborated** with QA and product teams; **recognized by PMs** for clarity and delivery reliability.
- **Contributed** to TOAST ID Migration with tools for better post-migration diff tracking.

Software Engineer, Dynamic Solution Innovators   May 2021 – July 2024

Project: IEIMS (Integrated Education Information Management System)

- **Developed** registration, form fill-up, and payment modules in a **microservice-based national education platform**.
- **Created** QR-based attendance system, **reducing manual workload by 80%**.
- Streamlined **multi-step form workflows** with robust frontend and backend integration.
- **Configured deployment pipelines using Jenkins**, containerized services with **Docker**, and managed deployment with **Kubernetes**, ensuring smooth rollouts and minimizing downtime.

Project: CRVS (Civil Registration and Vital Statistics)

- **Enhanced** reporting and **automated digital ID creation for 10M+ students**.
- **Improved system performance** by adding 10+ database indexes and optimizing queries, reducing key data fetch times from **50+ seconds to 4 seconds**.

Skills

Languages & Frameworks: Java, Spring Boot, JavaScript, TypeScript, Python, C#, Next.js, React, Tailwind CSS
Tools & Technologies: Mockito, Jest, Storybook, Liquibase, Docker, RabbitMQ, Jenkins, Kubernetes, Lens
Databases & Cloud: PostgreSQL, SQL Server, AWS (DynamoDB, S3, CloudWatch, Lambda, CloudFormation, CDK)
Game Development & Design: Android Studio, Unity, Blender, Photoshop, Unreal Engine

Education

Shahjalal University of Science and Technology, B.Sc. (Engg.) in Computer   2017 – 2021
Science and Engineering

- CGPA: 3.76/4.0