

AMIMUL EHSAN

Senior Software Engineer



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Leetcode



Github



LinkedIn

WORK EXPERIENCE

Software engineer with a strong background in technical and project management. Committed to producing high-quality software and fostering innovation. Experienced mentor and thinker.

SKILLS

- **Languages:** Java, Spring Boot, Go, Echo, Python, C, C++, SQL.
- **Databases and Cache:** MySQL, Oracle, MongoDB, Redis.
- **Messaging:** RabbitMQ, Kafka.
- **Containerization:** ECS, Docker, Kubernetes.
- **Search Engine:** Elastic Search.
- **Version Control:** Git, GitHub, GitLab.
- **Cloud Platforms:** AWS, Azure, GCP.

PERSONAL PROJECTS

- JOSSBEE - An Airbnb Clone
- SPRING BOOT HANDS-ON MICROSERVICES
- OWO E-Commerce APP
- OWO ADMIN PANEL
- OWO BACKEND
- NEO-CYBER

EDUCATION

- BSC in Computer Science
Bangladesh University of Engineering and Technology, Dhaka.
- Higher Secondary Education
GOVT. Azizul Haque College, Bogura .

Senior Software Engineer - Contractual

Bkash Limited X Inument Solutions Limited

June 2024 -CURRENT

- Took over the **Direct Charge project** from a Chinese company, enabling PIN-free payments for customers
- Upgraded Java from **8 to 21** and dynamodb from **1.x to 2.x** for better maintainability.
- Re-engineered the gateway module for the Direct Charge project, optimizing transaction flow and improving speed by 10%, enabling 5000+ additional daily transactions.
- Added customer module for mandate management.
- Created dev side CI/CD pipeline for easier deployments.
- Introduced a lock management system to prevent fraudulent transactions

SOFTWARE DEVELOPMENT ENGINEER - 2

Sayurbox

MAY 2022 - MAY 2024

- **Virtual Bundle Strategy Implementation:**
 - Planned, Developed and Achieved impressive 20% revenue growth and captured a 15% more market share within the initial quarter.
- Created and executed a comprehensive **campaign management system**, resulting in a **25% increase** in campaign-generated revenue.
- Resolved a persistent **memory leak issue** in Java-based services, analyzed heap data, and mitigated the leaking issue. **30% memory requirement was lower down.**
- Mitigated database **deadlock** issue.
- Addressed database query optimization (**optimized over 50 queries**) and enabled the application to use replication (Write to **master** and read from **slave** to distribute database load).
- Implemented **REDIS BLOOM FILTER** to optimize login performance, delivering fast and efficient user authentication, eliminating database queries, and reducing login failures by 80%.
- **HTTP Request Scheduler Development:** Led the development of an HTTP request scheduler while managing 5 engs. throughout the project. Engineered the system to **break down HTTP requests into components** and then stored components in the database for future **HTTP req. reconstruction**.
- Solved ordering issues on **black Friday** sales, by implementing a **red-sync distributed locking algorithm** in the system with Redis. Archived **90% latency improvement via partitioning the order database**.
- **Supplier Management System Creation:**
 - Planned and developed an advanced **supplier management system** that facilitates efficient **data management and farmer communication**. This led to a 10% reduction in overall farmer management costs.

SOFTWARE ENGINEER

TECHSTONE LIMITED

NOVEMBER 2021 - MAY 2022

- **Redesigned the whole database.** Making things much more consistent and normalized up to **4th normal** form.
- **Migration to AWS (ECS):**
 - **Containerized services** for on-premise to AWS migration and established an **inner network** for seamless communication among services.
 - Written **GitHub actions** for Docker builds and Achieved **CI/CD** service availability.
 - Resulted in a **30% reduction in infrastructure costs**.
- Integrated **payment gateways**, empowering easier payments.
- **Automated SMS and automated payment system.**
- **Attendance Machine Protocol Implementation:**
 - Authored attendance machine protocol using **web socket** technology which enables seamless **user enrollment via fingerprint and RFID card**. Reduced organization's time for **user registration and maintenance**.
- **Admission Portal Development:**
 - Planned and revamped a user-friendly **Admission Portal which has an integrated pdf form generation capability** and guided a **payment system** for a seamless admissions process.
- Introduced a **Dynamic template** for PDF generation in the system.

BACKEND DEVELOPER

SHOPKPR

NOVEMBER 2019 - NOVEMBER 2021

- Lead the development of **KYC-based password less** verification. User registration lowered from an average of 3 min to 30 sec only.
- Led monolith to microservice transition at the organization which led to higher scalability and higher efficiency for the backend services.
- Migrated spring-based application to **reactive spring-based application** for better performance and throughput.
- Made use of **Azure** heavily to leverage the on-demand application. This saved 20% server budget that was coming from the local provider.