

AL SHAKIB E ELAHI

Software Engineer - Fintech & Trade Finance Systems

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EXPERIENCE

Junior Software Engineer

Feb 2025 - Present

Leads Corporation Limited - Mirpur-14, Dhaka, Bangladesh

- Working in the Trade Finance team, developing a new trade finance module for **BankUltimus** using **Spring Boot** on the backend and **Angular 19** on the frontend
- Developed **SwiftFusion**, a trade finance application implementing the new **SWIFT ISO 2022** messaging standard, built with **Spring Boot** and **Angular 19**, leveraging **Apache Kafka** for event-driven messaging and **gRPC** for inter-service communication, containerized with **Docker** and deployed to **NRBC Bank** and **Southeast Bank** environments
- Contributed to a distributed transaction orchestrator in **Rust (Actix Web)** implementing **Two-Phase Commit (2PC)**, **Saga (choreography)**, and hybrid coordination models for bank-grade transactional workflows
- Integrated observability using **Prometheus**, **Grafana**, and **Elasticsearch** for metrics, logging, dashboards, and proactive alerting across services
- Maintained and enhanced the Notification & Alert System built on **.NET Core** with background workers, handling deployments, reliability improvements, and feature extensions

Software Engineer & Team Lead

Jul 2024 - Jan 2025

SparkTech Agency (Betopia Group) - Banasree, Dhaka, Bangladesh

- Collaborated with UX/UI designers to improve user experiences
- Led frontend and backend development teams to build scalable systems
- Deployed applications on DigitalOcean and GoDaddy
- Used CI/CD pipelines for automated deployment
- Managed and mentored junior developers

Junior Software Engineer

Dec 2023 - Jun 2024

SparkTech Agency (Betopia Group) - Banasree, Dhaka, Bangladesh

- Deployed frontend and backend components on DigitalOcean using Nginx
- Maintained communication with clients to ensure project alignment
- Integrated APIs with RTK Query

Software Engineer Intern

Sep 2023 - Nov 2023

SparkTech Agency (Betopia Group) - Banasree, Dhaka, Bangladesh

- Deployed backend using Express.js
- Worked with Socket.IO for real-time messaging and notification systems

EDUCATION

BSc in Computer Science and Engineering

Mar 2020 - Jun 2024

American International University - Bangladesh - Dhaka, Bangladesh

- CGPA: 3.92 / 4.00

PROJECTS

SovoHR

Dec 2024 - Jan 2025

A complete ERP solution featuring HR management, payroll, attendance, and recruitment modules.

- Built with **Laravel** (backend) and **React (Vite)** for the organization portal (SaaS), with a **Next.js** marketing site and job portal
- Covers end-to-end HR workflows including employee management, payroll processing, attendance tracking, and a dedicated job portal

Live: sovohr.com Portal: portal.sovohr.com Jobs: jobs.sovohr.com

Your Capture Awards

May 2024 - Dec 2024

The ultimate destination for photographers to discuss and showcase stunning imagery.

- Amazon S3 Bucket: used for storing images uploaded to different contests
- RTK Query: used for efficient API integration with seamless data fetching and caching
- Deployment: hosted on DigitalOcean using Nginx and TMUX for session management

Live: yourcaptureawards.com

Mélange

Mar 2024 - Jun 2024

A talent pool for musical, digital, and visual artists spanning continents and skillsets.

- Socket.IO: enables real-time notifications, keeping users updated instantly
- Agenda: handles the email queue system, ensuring timely and organized email delivery
- RTK Query: used for efficient API integration with seamless data fetching and caching
- Deployment: hosted on DigitalOcean using Nginx and TMUX for session management

Live: melangerecords.online

Russend

A money transfer app facilitating easy and secure financial transactions from Russia to Central African countries.

- Paydunya API: integrated to support mobile money transfers via services like Orange Money and MTN
- Socket.IO: enables real-time updates for transaction statuses and notifications to the mobile app
- GitHub Actions (CI/CD): automated testing and deployment pipelines
- Firebase Push Notification: integrated for real-time notifications on transfer status updates

Live: russendapp.com Play Store: [Google Play](https://play.google.com/store/apps/details?id=com.russend) App Store: [App Store](https://apps.apple.com/app/russend/id1544444444)

Merchandise Management System

University project built to learn the .NET Framework.

- Basic CRUD operations implemented with authentication and authorization
- Entity Framework: used for data access, simplifying database interactions
- LINQ: applied for querying data
- Maintained SOLID design principles, following n-Tier architecture

GitHub: [alshakibeelahi/MuMerch_Backend_ASP.NET_Web_API](https://github.com/alshakibeelahi/MuMerch_Backend_ASP.NET_Web_API)

PUBLICATIONS

[J.1] [Optimizing Federated Learning Efficiency: Accelerating Model Averaging with Cluster-Based Approach Using Class Occurrences \(FedCCO\)](#)

Neural Computing and Applications, Vol. 37, No. 20, pp. 15369-15387, May 2025. Springer. DOI: 10.1007/s00521-025-11289-0.

SKILLS

Programming Languages: C++, C#, PHP, Python, JavaScript, Rust

Front-end: React, Next.js, Angular, ASP.NET MVC

Back-end: Express.js, NestJS, ASP.NET Core, Spring Boot, Laravel, Actix-Web (Rust)

Database: MongoDB, PostgreSQL, MS SQL

DevOps & Messaging: Docker, Apache Kafka, Redis, gRPC, GitHub Actions (CI/CD), Prometheus, Grafana, Elasticsearch

VPS / Cloud Hosting: DigitalOcean, GoDaddy, IIS, AWS

Others: Git, Problem Solving

REFERENCES

Babul Mirdha

CEO, Alor Feri Limited

Email: babul.mirdha@alorferi.com | Phone: 01717-983473

Relationship: Former Consultant at bdCalling IT Ltd.

Dr. Debajyoti Karmaker

Associate Professor, Head (Undergraduate Program), Department of Computer Science, American International University - Bangladesh

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Relationship: Thesis Supervisor