Nafiul Islam
Software Engineer

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Professional Skills

Programming Languages
- Java
- JavaScript
- C
- C++

Databases
- MySQL
- MS SQL
- PostgresSQL
- SQLite
- InfluxDB

Technologies
- Spring Boot
- Spring Security
- JUnit
- Mockito
- Hibernate
- Spring Data JPA
- JWT
- OAuth 2.0
- Javalin
- Microservices
- ReactJS
- Amazon S3
- AWS Cognito
- Redis Cache
- Apache Kafka
- Maven
- Gradle
- Swagger

Version Control & Project Management
- GitLab
- GitHub
- Bitbucket
- Jira
- ClickUp

Summary

Innovative and results-driven software engineer with a strong foundation in designing and developing efficient, scalable, and high-performance software solutions. Passionate about solving complex problems and building reliable systems that drive business success.Skilled in software development, system optimization, API design, requirement analysis, documentation, database design, client management, and project maintenance. A continuous learner who thrives in collaborative environments, bringing creativity and technical expertise to deliver impactful solutions.

Education Background

Degree: Bachelor of Computer Science and Engineering (2016-2020)
University: North South University
CGPA: 3.77 (Out of 4.00)

Degree: Higher Secondary Certificate-HSC (2015)
College: National Ideal College
GPA: 5.00 (Out of 5.00)

Degree: Secondary School Certificate-SSC (2013)
School: National Ideal School
GPA: 5.00 (Out of 5.00)

Professional Experience

Cloudly Infotech Limited
Software Engineer (January 2025 – Present)
- Develop a Javalin-based IoT solution for industrial refrigeration systems, enabling real-time monitoring and control.
- Design alert mechanisms for critical I/O values and manage SQLite, InfluxDB for structured and time-series data storage.
- Mentored junior team members

Adventure Dhaka Limited
Senior Software Engineer (October 2024 – December 2024)
Software Engineer (August 2023 – September 2024)
- Integrated third-party APIs in a Microservice based project.
- Managed large-scale data retrieval and storage in PostgreSQL databases.
- Mentored junior team members and assisted supervisors in making critical decisions.

TechnoNext Limited
Software Engineer (June 2022 - July 2023)
- Developed and managed an Aircraft Management System using Java/Spring Boot, enabling efficient resource planning and operational management.
- Designed and implemented features for flight count tracking, fuel management, fleet monitoring, and aircraft tool maintenance.
- Mentored junior resources.

Synesis IT LTD
Programmer (June 2020 - May 2022)
- Developed a video conferencing application using React, Spring Boot, and MySQL in a microservices architecture for scalability and efficiency.
- Led full-stack development, optimizing performance and user experience through cross-functional collaboration.

North South University

Teaching Assistant-TA (January-2018 to May-2020)
- Mentored 350+ students, providing guidance and support in various courses.
- Prepared assignment questions to assess students' understanding and knowledge.
- Assisted faculty in managing examinations and grading homework and assignments.

Professional Projects

Project Title: IoT-Based Industrial Refrigeration System (Cloudly Infotech)

Project Overview: The project focuses on developing an IoT-based control system for industrial refrigeration systems, enabling real-time monitoring and control. The system communicates with various devices through Modbus, Ethernet/IP, and IO-Link protocols to acquire data from sensors and control devices. The data is processed through PID control for precise regulation of system variables like temperature, pressure, and flow rates. The processed data is written back to the devices. Additionally, critical system data, event logs, and sensor readings are stored in SQLite and InfluxDB. The system also generates historical reports based on data from InfluxDB.

Responsibilities: Designed and developed APIs using Spring Boot to expose data from the Javalin application to the frontend, enabling communication between the control system and the user interface. Implemented API endpoints for retrieving I/O data from devices through Modbus, Ethernet/IP, and IO-Link protocols. Additionally, I monitored InfluxDB for historical data retrieval and reporting, providing system insights and ensuring the efficient flow of data between backend, database, and frontend.

Technology Used: Javalin, Spring Boot, SQLite, InfluxDB, Modbus, Ethernet/IP

Role: Backend Developer

Project Title: New Adventure Project (Adventure Dhaka Limited)

Project Overview: The New Adventure Project is a comprehensive travel booking platform developed with a robust backend in Java Spring Boot and a dynamic frontend in React. The system is architected using a microservices approach, with dedicated services for product details, payments, notifications, user management, booking, and cart management. It seamlessly integrates with APIs from leading online travel agencies like Agoda, Expedia, and Rakuten to facilitate hotel bookings. Future enhancements will include integration with flight booking services, further expanding its capabilities.

Responsibilities: Develop the necessary modules, including authentication and authorization, third-party vendor API integration, and more.

Technology Used: Java, Spring Boot, MySQL, PostgreSQL, Microservices, Kafka.

Role: Backend Developer

Project Title: Localization Module (Adventure Dhaka Limited)

Project Overview: The Localization Module was developed to enable dynamic changes in text language, currency, and other user-specific information based on language settings. This module supports a seamless user experience by adapting content in real-time according to the user's preferences.

It ensures that text is displayed in multiple languages and that currency values are formatted according to the local standards, improving accessibility and user satisfaction across diverse regions.

Responsibilities: Single-handedly implemented multilingual text support, configured currency conversion, and optimized data retrieval with Redis cache for improved performance and responsiveness.

Technology Used: Java, Spring Boot, PostgreSQL, Redis Cache.

Role: Backend Developer

Project Title: Aircraft Management System (TechnoNext Limited)

Project Overview: The Aircraft Management System is designed to streamline the management of airplane resources, ensuring efficient operations and resource allocation. This system integrates key modules such as authentication and authorization, store procurement, planning, logistics, audit, and report generation to provide a comprehensive solution for managing all aspects of an airline's operations. It helps track critical resources, manage inventory, and generate detailed reports, improving decision-making and operational efficiency. The platform is built to handle the complexities of fleet management, ensuring smooth and secure operations across the board.

Responsibilities: As a Backend Developer, I was responsible for developing core modules, including authentication and authorization, store procurement, planning, logistics, audit, and report generation.

Technology Used: Java, SpringBoot , MS SQL

Role: Backend Developer

Project Title: Convay Project (Video Conferencing Application) (Synesis IT LTD)

Project Overview: The Convay Project is a cutting-edge video conferencing application designed to provide an intuitive, seamless, and high-performing user experience. As a full-stack solution, it incorporates advanced features for real-time communication, optimized performance, and a robust backend to manage video streaming, messaging, and user interactions. The project leverages React for a dynamic and responsive frontend, while Spring Boot with MySQL handles the backend in a microservices architecture to ensure scalability, modularity, and efficient data management.

Responsibilities: As a Full Stack Developer, I led the development of the Convay Project, utilizing React for the frontend and Spring boot with MySQL for the backend in a microservices architecture, ensuring modularity, scalability, and performance optimization through cross-functional collaboration.

Technology Used: Java, SpringBoot , React, MySQL, Microservices Architecture.

Role: Full Stack Developer

Award & Achievements:
- Achieved Magna Cum Laude distinction for outstanding performance during undergraduate studies.
- Received a merit-based Financial Scholarship, covering 75% of tuition expenses.
- Granted a Board Scholarship (General Category) based on performance in the HSC exam.
- Earned a Board Scholarship (Talent-pool Category) for exceptional performance in the JSC exam.