Towfiqul Islam

Software Engineer

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SKILLS

Java 7, Java 8, Java 11 (Spring Boot, Camel), MySQL, Oracle, PostgreSQL, Docker, Jenkins, AWS, AZURE, CLI, Tomcat, Postman, JUnit, Rest Assured, Ubuntu, CentOS

PROFESSIONAL EXPERIENCE

Software Engineer (Full-time, Remote)   11/2021 – present
SELISE 🔗   Zürich, Switzerland
- Responsible for defining & developing software for tasks associated.
- Develop enhancements to existing products.
- Collaborate in a team environment to share best practices.
- Implement process improvements.
- Ensure software quality.

Software Engineer (Full-time, Remote)   12/2019 – 11/2021
Exabyting 🔗   Dhaka, Bangladesh
- Developed various Govt and Private Web Application and Services.
- Planned development cycle and collected requirements for developing software.
- Managed three members group and delivered task within deadline.
- Worked with bKash Limited as Partner Team with their Solution Engineering Team.
- Learned software design patterns, clean coding, communication and taking ownership.
- Work in Agile/Scrum development process.
- Review and Analyze Project requirement Document.
- Prepare release note and conduct deployment.
- Demo presentation on demand.

PROJECTS

Urstamm 🔗   10/2023
Swiss date wood with digital proof of origin
Client: Switzerland-based Digital Solution company.
A project focusing on sustainable wood sourcing and environmentally friendly home design. The project aimed to enhance efficiency, data integrity, and visualization for the supply chain process.
- Attained a 20% performance enhancement by optimizing database queries and refining implementations.
- Successfully integrated Blockchain technology to ensure secure data storage, while establishing a fault-tolerant transaction system.
- Developed a comprehensive batch process pipeline, enabling the seamless storage of legacy 0.5GB data on the Blockchain platform.
- Designed an intuitive and informative Supply Chain Visualization tool.
- Utilized: Java(11), Spring Boot, Web3J, PostgreSQL, Spring Batch, Jhipster.

Tesenso Middleware 🔗   06/2022 – 12/2023
An IoT Based Project based on ThingsBoard
Client: Tesenso 🔗
An IoT project is developed for a company that produces electrical vehicles and spaceships. This is a complete dynamic project that is multi-tenant-based and multi-role-based which provides various solutions to that company and handles millions of data.
- Extended ThingsBoard, integrating Postgres DB, TimescaleDb, and Git Actions for streamlined CI/CD.
- Implemented Mbus decoder for improved data decoding on the backend and frontend.
- Designed rule nodes (e.g., Loriot, MBUS, SOAP) enhancing functionality on both ends.

- Engineered premium features in the backend for increased product value.
- Optimized time-series data handling and PostgreSQL queries for dashboard enhancement.
- Introduced a versatile export system for mobile and web platforms.
- Developed WebSocket handler for real-time widget updates.
- Orchestrated Swisscom integration, extending platform connectivity.

Technology: Java (Spring Boot), C Libraries, DB (PostgreSQL, Cassandra), MQ (Rabbit, Kafka), Redis, Azure DevOps, REST API, JS, Angular, HTTP, HTTPS, Web Socket, IoT Protocols, MQTT, CoAP, SNMP, TimescaleDB, K6

MULTIBANK
An Internal Web Application of **bKash Limited**. Implemented SFTP inbound/outbound, Configurable Email notification with async methodology, maker checker approval flow, and log-back integration.
Technology: JAVA(Spring-Boot), API, JQuery, MySQL, Spring-Integration

Others
Also contributed to bKash Savings DPS, bKash Airtime Management System, bKash Agent App, etc. Besides, worked on blockchain and supply chain for a Swiss client at SELISE.

EDUCATION

Bachelor of Science in CSE   03/2014 – 11/2019
International Islamic University Chittagong 🔗   Chittagong,
                                                                     Bangladesh

OPEN-SOURCE CONTRIBUTION

ThingsBoard
https://github.com/thingsboard/thingsboard
PR: 6614 🔗