

MOHAMMAD RAFSUN JANY MAHIN

Senior Software Engineer

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• Ga-71, Behind Panshi Hotel, Link Road, Badda, Dhaka, Bangladesh

Summary

I am a **Senior Software Engineer** with expertise in **backend architecture**, **distributed systems**, and **cloud-native applications**. Skilled in **Python**, exploring **Rust** and **AI** to enhance **performance**, **scalability**, and **intelligent automation**. Strong focus on **system design**, **reliability**, and **security best practices**.

Experience

WellDev

Ahmed Tower, Kemal Ataturk Ave, Dhaka

Senior Software Engineer

07/2024 - Present

- Built and maintained Python/FastAPI backend services with PostgreSQL, Redis, Celery.
- Developed a Python-based job library for automating backend workflows.
- Managed secrets using HashiCorp Vault and improved application security.
- Automated deployments via GitLab CI/CD and Docker for scalability.
- Monitored systems with Grafana, Loki, Promtail ensuring high uptime.
- Conducted code reviews to enforce quality and best practices.
- Consumed messages via Kafka REST Proxy for real-time data processing.
- Integrated OpenAI Codex CLI with development workflow without accessing secrets.

WellDev

Ahmed Tower, Kemal Ataturk Ave, Dhaka

Software Engineer

07/2023 - 10/2024

- Built and maintained Python/FastAPI backend services with PostgreSQL.
- Deployed applications on IIS servers with Active Directory integration.
- Integrated the ELK stack (Elasticsearch, Logstash, Kibana) for advanced logging and monitoring.
- Automated manual workflows using script-based solution.
- Wrote comprehensive unit tests and end-to-end tests to ensure software reliability.

WellDev

Ahmed Tower, Kemal Ataturk Ave, Dhaka

Junior Software Engineer

07/2022 - 07/2023

- Modernized legacy Oracle Forms into Oracle APEX apps with multiple REST endpoints.
- Developed responsive web applications using Oracle APEX and Oracle database.
- Designed and optimized PL/SQL databases handling 10M+ records for analytical dashboards.
- Implemented frontend features with HTML, CSS, and Ajax.

Beximco Computers Ltd

Independent Television, Tejgoan, Dhaka

Assistant Programmer

08/2021 - 07/2022

- Transformed legacy desktop applications into Oracle APEX web applications.
- Implemented user management systems using PL/SQL.
- Developed key systems including HRM, Transport Management.

ERA InfoTech Ltd
Trainee Software Engineer

Fareast Tower, 35 Topkhana Road, Dhaka
09/2020 - 06/2021

- Designed and developed key modules of a financial system using PL/SQL, Oracle APEX, HTML, CSS, JavaScript, and Oracle Database.
- Contributed to existing database solutions and handled large-scale data efficiently.
- Gained hands-on experience in financial systems development and database design.

North South University
Lab Officer

Bashundhara, Dhaka
09/2018 - 05/2020

- Independently taught 3 undergraduate labs (9 hours/week)
- Provided consultation to students for remaining contracted hours (11 hours/week)
- Assisted in the preparation of laboratory manuals
- Invigilated examinations

Education

North South University
B.Sc. in Computer Science & Engineering

Bashundhara, Dhaka
09/2018 - 05/2020

- CGPA: 3.37
- Coursework: Data Structures and Algorithms, Database Systems, Operating Systems, Computer Networks, Software Engineering, Machine Learning, Software Quality and Testing, Digital Logic Design, Computer Architecture, Probability and Statistics, Linear Algebra, Calculus, Discrete Mathematics

Publications

IEEE - <https://ieeexplore.ieee.org/document/8979819>

A Data Analysis Pipeline for Identifying Periodic Processes during Drosophila Development 2019

Conference Paper presented at IEEE ICCABS 2019. The paper proposes a computational pipeline for discovering periodic biological processes in organisms by mining periodic subgraphs from temporal gene networks, specifically analyzing 588 Drosophila genes across 30 time-varying networks.

Skills

Python • Rust • FastAPI • SQLAlchemy • Redis • HTML • CSS • JavaScript • PostgreSQL • Oracle • Elasticsearch • Docker • Kubernetes • Nginx • HashiCorp Vault • CI/CD • Linux • Grafana • Jinja • Git • REST APIs • System Design • Kafka • Ollama • LangChain • Qdrant • NLP • Distributed Systems • Microservices • Cloud Infrastructure • Application Security • Problem Solving • IIS • Microsoft SQL Server