Mushfiqul Islam Chowdhury

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Introduction

Software Engineer with 4+ years of experience building scalable backend systems and APIs using Python and Go. Strong background in Linux environments, system programming, and performance optimization. Skilled in asynchronous programming, microservice architecture, security tooling, and CI/CD workflows. Experienced in integrating ML models and optimizing pipelines for production.

Education

University of Jyväskylä, M.Sc. in Artificial Intelligence   Aug 2025 – Present

BRAC University, B.Sc. in Computer Science and Engineering   Jan 2017 – Sept 2021
- GPA: 3.5/4.0

Experience

Software Engineer, Pipeline Bangladesh Ltd   May 2022 – Aug 2025
- Replaced Logstash with a custom Python-based ET service for DNS log extraction and analytics, reducing memory usage from 16GB to <500MB.
- Achieved stable processing of up to 120K logs/min, enabling the system to run on 8GB RAM and 4-core infrastructure.
- Architected and led development of a security risk scanning platform using Go (concurrent scanning engine), ReAct-style AI agent using LangChain for multilingual expert analysis, and SaaS reporting
- Delivered full-domain scans in under 5 minutes and automated bilingual PDF/Excel reporting with dashboard insights

Junior Software Engineer, Tirzok Private Limited   June 2021 – Apr 2022
- Designed and implemented an MLM-based reward system using custom Odoo modules (wallet, member, depot).
- Leveraged Neo4j to model and calculate binary rank trees, enabling accurate reward distribution on ecommerce purchases

Junior Software Engineer, Part-time, Field Information Solutions Ltd(Field Buzz)   Apr 2020 – May 2021
- Redesigned role-based access control in a client-facing dashboard by modularizing permission logic (create, update, delete), improving usability and operational security for enterprise teams.

Projects

Sales Chatbot   sales-chatbot
- Developed a sales chatbot enabling order tracking and personalized product recommendations based on customer and country-level buying trends.
- Designed and implemented a layered architecture with structured data modeling to analyze purchase behavior and optimize product suggestions through AI-driven responses
- Tools Used: Python, LangChain, OpenAI API, PostgreSQL

Food Any where   Foodanywhere
- Developed web version of food delivery service where multiple shops can simultaneously process orders
- Tools Used: Python, Django, REST API, SQLite

Technologies

Current Focus: Python, Go, Linux, Redis, ETL, Kafka, Bash, Task Agent, OpenAI API, Langchain
Actively Following: Django, PostgreSQL, Qdrant, scikit-learn, PyTorch, TensorFlow, zenML, Docker, Git
Familiar Technologies: Odoo, Neo4j, SQLite, RabbitMQ, Nginx, MLflow, AWS SageMaker, Jira, Redmine, LaTeX