Asaduzzaman Noor

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Engineer crafting high-performance systems with automation — where efficiency meets intelligent design.

Brief

I'm a Backend Engineer who thrives on building lean, high-performance distributed systems. While I can navigate the frontend when needed, my real passion lies deep in system programming and Linux internals. With hands-on experience in Go, Kubernetes, AWS, GCP, and scalable architectures, I focus on crafting resilient, efficient solutions and automating everything possible. Lately, I've been diving into Machine Learning—exploring, using, and even building AI tools that push the limits of intelligent automation.

Skills

Languages Go, Python, JavaScript, Zig, Bash
Frameworks Echo, React, TailwindCSS. Templ (Go)
Databases PostgreSQL, Redis/KeyDB, DynamoDB, Elasticsearch, InfluxDB
Message Brokers Asynq (Go), NATS
Infrastructure Kubernetes, Docker, Pulumi/Terraform, Linux
Observability Grafana, Prometheus, Loki
Cloud Platform AWS, GCP

Experience

Vivasoft Limited **Aug 2022 – Present**
Software Engineer

Klikit

- Microservice to handle uploading files to GCS, as well as image conversion and resizing.
- Microservice to send emails with MailGun.
- Microservice to send SMS and WhatsApp messages to users.
- Integrate Third-Party Platform to Klikit.
- Collaborated with other microservices as necessary.
- *Tech Stack: Go, MySQL, Docker, Kubernetes, AWS EKS, GCP GCS, MailGun*

Hink

- Refactored the project with Clean Architecture principle.
- Fixed bugs.
- Deployed a lambda for handling media post-processing.
- *Tech Stack: Go, MySQL, Elasticsearch, Docker, Kubernetes, AWS S3, GCP GKE, Google Maps API*

Circle

- Refactored DynamoDB table design for better indexing and faster data retrieval as well as reducing read/write costs.
- Improved user feed.
- Automated place registrations from user pings.
- User management features for admin.
- *Tech Stack: Go, AWS DynamoDB, Docker Swarm, AWS EC2, AWS SES, Google Maps API*

GPS Server (Part of backend for Sister Concerns)

- Redesigned the software architecture to an more efficient version. (R&D)
- Improved DB Design.
- Added real-time tracking and analytics.
- *Tech Stack: Go, PostgreSQL (TimescaleDB), Redis*

Anonymous Feedback System

- Designed and implemented a secure feedback system with **untraceable** Google login.
- Designed UI and Portal, segregated by user type.
- *Tech Stack: Go, PostgreSQL, JavaScript (React)*

Mock Server

- Designed and implemented a multi-tenant mock server which enables live HTTP request for Frontend teams until the Backend is ready.
- *Tech Stack: Go, PostgreSQL, JavaScript (React)*

SIP Server

- Designed and implemented a horizontally scalable SIP Server for Telecommunication System.
- Added geo-restrictions, rate limiting.
- Added Monitoring and Analytics for calls and server.
- Added voice mail and email notification support.
- *Tech Stack: Asterisk, OpenSIPS, RTPEngine, PostFix Relay, MySQL, PostgreSQL, Traefik, Kubernetes*

Education

North South University, BD **2021**
Bachelor of Science in Computer Science and Engineering

Publications

- Patch-Wise Semantic Segmentation of Sedimentation from High-Resolution Satellite Images Using Deep Learning — *Springer - 2021*
- Effect of Label Noise on Multi-Class Semantic Segmentation: A Case Study on Bangladesh Marine Region — *Taylor & Francis - 2022*

Awards

- President's Scout Award (2011)
- IELTS, Band 7.5 (2016)

Projects

Inventory Management & Ledger *(Personal Paid Project)* **Jan 2022**

- Desktop App: built with Rust (Tauri), ReactJS, SQLite

Local Memory Agent for universal LLMs **Oct 2025**

- MCP Server: Provides tools for efficiently storing and retrieving general memory, project context for AI tools.
- *Tech Stack: Python (Pydantic AI, MemVid)*