

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 Software Engineer Klikit	Aug 2022 – Present
– 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.	

Education

North South University, BD Bachelor of Science in Computer Science and Engineering	2021
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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](#)

Projects

Inventory Management & Ledger (Personal Paid Project) – Desktop App: built with Rust (Tauri), ReactJS, SQLite	Jan 2022
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