

# 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

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

## 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](#)

## Projects

### Inventory Management & Ledger (Personal Paid Project)

Jan 2022

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