

# Asaduzzaman Noor

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

<https://asaduzzaman-noor.com>

## 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** Async (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*

#### 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)*

#### 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, Kubernetes*

### Softimist (Part-time, in weekends)

Sep 2025 – Present

Software Engineer

#### Edushade (Learning Management System)

- Designed and implemented File Manager for LMS.
- Designed and implemented billing service with SSLCommerz as the gateway.
- Enabled one-time purchase, EMI purchase and susbscription system.
- *Tech Stack: Go, PostgreSQL, Redis, SSLCommerz*

## Education

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North South University, BD

Bachelor of Science in Computer Science and Engineering

2021

## Publications

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- 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

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

## Projects

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### HTTPostie (OSS)

- API Testing Tool.
- Creates swagger-like testing tool from `.http` files.
- Creates mock endpoints for frontend.
- *Tech Stack: Go, JavaScript (React)*

### MemoryHub (OSS)

- MCP Server, provides tool for memory management for MCP clients.
- Efficient, portable memory.
- *Tech Stack: Go, Python, SQLite, OpenCV, FFmpeg*

### Lumos (OSS)

- NotebookLM alternative, on *your* server/notebook.
- *Tech Stack: Go, Python, JavaScript (React)*

### LocalRegistry (OSS)

- Docker Container Registry in local machine.
- Useful for local kubernetes development (eg. with `k3s`, `kind`)
- *Tech Stack: Docker, Bash*

### httpyac-nvim (OSS)

- Neovim Plugin.
- Send web requests from `.http` files.
- View the results without leaving the editor.
- *Tech Stack: Lua*

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

Jan 2022

- Desktop App: built with Rust (Tauri), ReactJS, SQLite
- Tracks the product stock.
- Provides a digital ledgerbook for daily money-transaction entries.