

# Md. Sabbir Ahmmed

Software Engineer | Cloud & AI Specialist

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## Professional Summary

Software Engineer with 4+ years of experience building scalable full-stack applications, cloud-native systems, and AI-powered solutions. Experienced in system architecture, backend engineering, and leading technical initiatives across the full software development lifecycle. Passionate about designing reliable, high-performance software that solves complex business problems and delivers measurable impact.

## Technical Skills

- **Languages:** Python, JavaScript, TypeScript, Golang
- **Front-end:** React.js, Next.js, Redux Toolkit, Tailwind CSS, Shadcn/ui
- **Back-end:** Node.js, Express.js, Nest.js, RESTful API, Socket.IO, RabbitMQ, BullMQ
- **Database:** PostgreSQL, MongoDB, Redis, Prisma, Mongoose
- **Cloud & DevOps:** AWS, GCP, Docker, **GitHub Actions**, CI/CD, Nginx, Cloudflare, Linux Server
- **AI & LLMs:** LLM Integration, Open-Source LLMs, Ollama, RAG, Vector Databases (Qdrant)

## Professional Experience

**Appstick, Bangladesh — Senior Software Engineer** | January 2025 – Present

- Architected and developed scalable distributed backend systems using **NestJS**, **Golang**, **RabbitMQ**, BullMQ, Prisma, **Redis**, and **PostgreSQL**, delivering maintainable, production-ready solutions.
- Designed and deployed an AI-powered **RAG** platform using Ollama, Gemma, Qwen, embedding models, and Qdrant Vector Database, enabling intelligent business knowledge retrieval and conversational search.
- Managed and optimized production infrastructure on **AWS/GCP** using **Docker**, Nginx, and **CI/CD** pipelines, achieving **99.9%** uptime and reducing deployment time by 50%.

**Junior Software Engineer** | July 2022 – December 2024

- Developed and maintained scalable web applications using **React.js**, Next.js, **Node.js**, Express.js, Firebase, and **MongoDB** for enterprise and client-facing solutions.
- Engineered real-time notifications, live tracking, and event-driven communication with Socket.IO, reducing order processing latency by 20% for ride-sharing applications.
- Resolved 150+ high-priority production issues, improving system stability and reducing critical system incidents by 25%.

## Key Projects

**Msar-Amen:** *A Comprehensive Ride-Sharing Platform*

- Developed **geofence-based dynamic fare calculation** and implemented **real-time ride** tracking to power scalable, location-aware transportation services across **Saudi Arabia**.
- Optimized Maps API usage through request caching and efficient route handling, **reducing API costs** while improving map performance.
- Designed and implemented **RESTful APIs** for ride booking, trip management, and driver workflows, supporting on-demand and scheduled rides, delivery services, and queue management for Haramain train stations.

### **Shopstick:** *An all-in-one business management platform*

- Designed and developed an **AI-powered** RAG-based business chat system using Ollama, Gemma, Qwen, Qdrant Vector Database, and embedding models, enabling intelligent document retrieval and conversational search.
- Built **scalable REST APIs**, asynchronous processing with **BullMQ**, and an interactive chat interface, delivering a responsive AI assistant experience.

### **VetHub:** *A Multi-Vendor Pet Care & Veterinary SaaS Platform*

- Architected the **backend** architecture and **DevOps** infrastructure for a **multi-tenant SaaS** platform serving a **Saudi Arabia**-based pet care marketplace, supporting e-commerce, veterinary clinic management, appointment scheduling, and electronic medical records (EMR).
- Designed a flexible **subscription and commission pricing engine** with a deduplication algorithm to calculate pricing based on branch count, business type, feature selection, and subscription plans.
- Implemented **branch-level RBAC**, **KPI analytics**, **multi-vendor order and shipping management**, and **custom domain provisioning with automated SSL** for vendor storefronts.

## **Education**

- **M.Sc. in Computer Science and Engineering**  
*Khulna University | 2022 – 2023*
- **B.Sc. in Computer Science and Engineering**  
*Northern University of Business & Technology Khulna | 2018 – 2021*

## **Publications & Research**

**Breast tumor prediction and feature importance score finding using machine learning algorithms** — *Published Dec 2023. Category: Machine Learning. Available on: [Publication Link](#)*

## **Certifications**

- Complete Web Development @JavaScript, Reactjs – [Preview](#)
- Node.js, Express, MongoDB & More: The Complete Bootcamp – [Preview](#)
- System design and backend engineering with AWS – [Preview](#)

## **Coding & Creative Profiles**

- URI Online Judge(Beecrowd): [Profile Link](#)
- Github: [Profile Link](#)
- Behance(UI/UX): [Profile Link](#)

## **Languages**

- Bangla — Native
- English — Fluent
- Arabic — Elementary