

KAZI SHIPLU

Senior Software Engineer & Lead Engineer · AI Agent Developer

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PROFESSIONAL SUMMARY

Senior Software Engineer and Lead Engineer with 8+ years of experience building backend platforms, multi-tenant SaaS products, distributed systems, cloud infrastructure, and AI-powered applications. Hands-on expertise in Node.js, TypeScript, NestJS, PostgreSQL, Redis, Elasticsearch, RabbitMQ, Docker, Kubernetes, AWS, and CI/CD. Experienced in developing AI agents, LLM applications, retrieval-augmented generation (RAG), tool calling, workflow orchestration, vector search, local LLM deployment, and enterprise data-source integrations.

CORE SKILLS

Backend	Node.js · TypeScript · JavaScript · NestJS · Express.js · REST APIs · GraphQL · Microservices · Modular Monoliths · Clean Architecture · Event-Driven Architecture
AI / LLM	LLM Agents · Tool Calling · RAG · Embeddings · Vector Databases · Prompt Engineering · Multi-Agent Workflows · LangChain · LangGraph · Ollama · OpenAI API · Hugging Face · ChromaDB · pgvector
Data & Messaging	PostgreSQL · MongoDB · Redis · Elasticsearch · SQLite · RabbitMQ · BullMQ · NATS
Cloud & DevOps	Docker · Kubernetes · AWS (EC2, S3, RDS, ECR, Route 53) · CI/CD · GitHub Actions · Nginx · Linux · Terraform · Prometheus · Grafana · Loki
Frontend / Mobile	React · Next.js · Vite · React Native · Expo

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Lead Engineer | [RoBenDevs](#)

Jan 2026 – Present · Dhaka, Bangladesh

- ▶ Lead backend engineering, architecture, technical delivery, code reviews, and engineering standards for enterprise-scale SaaS applications.
- ▶ Design secure, cloud-native services using Node.js, TypeScript, PostgreSQL, Redis, Elasticsearch, RabbitMQ, Docker, Kubernetes, and CI/CD pipelines.
- ▶ Develop AI agent and LLM application architectures connecting business data, APIs, files, email, calendar, project-management, and time-tracking systems.
- ▶ Design RAG pipelines with embeddings, vector search, metadata filtering, tenant isolation, permission-aware retrieval, grounded responses, and audit logging.
- ▶ Build provider-agnostic AI integrations for OpenAI-compatible API, Anthropic Claude API, Ollama, and locally hosted models.
- ▶ Mentor engineers, guide technical decisions, remove delivery blockers, and improve reliability through observability and production incident analysis.

Software Engineer IV | Lead Engineer | [RoBenDevs](#)

Jan 2025 – Dec 2025 · Dhaka, Bangladesh

- ▶ Led backend engineering and selected DevOps initiatives for data-driven SaaS platforms.

- ▶ Designed scalable APIs, asynchronous workers, multi-tenant data models, integration services, and event-driven workflows.
- ▶ Established clean-architecture boundaries, reusable modules, deployment standards, and automated delivery pipelines.
- ▶ Evaluated and prototyped AI-assisted workflows, local LLM services, semantic search, and business-process automation.

Software Engineer III | [RoBenDevs](#)

Sep 2023 – Dec 2024 · Dhaka, Bangladesh

- ▶ Designed APIs, microservices, and system architecture for enterprise applications.
- ▶ Built backend workflows with PostgreSQL, Redis, Elasticsearch, RabbitMQ, S3-compatible storage, and Kubernetes.
- ▶ Implemented CI/CD automation, production observability, background processing, file ingestion, and search functionality.

Backend Engineer | [Monstarlab](#)

Dec 2021 – Aug 2023 · Dhaka, Bangladesh

- ▶ Developed and maintained backend applications and APIs using Node.js, TypeScript, NestJS, Express.js, relational databases, and cloud services.
- ▶ Implemented authentication, authorization, integrations, background jobs, validation, error handling, automated tests, and structured logging.
- ▶ Collaborated with frontend, QA, product, and infrastructure teams through planning, implementation, review, release, and production support.

Software Engineer | [Evaly](#)

Jan 2021 – Aug 2021 · Dhaka, Bangladesh

- ▶ Developed microservices and APIs across eValy, eFood, eLogistics, eHealth, and Flight Expert platforms.
- ▶ Used Node.js, Express.js, NestJS, Python, Golang, MongoDB, Redis, RabbitMQ, NATS, Docker, Kubernetes, and GraphQL.
- ▶ Built order-processing, merchant-management, advertisement, rating, and airline-provider services.

Software Engineer | [Virtue5](#)

Feb 2018 – Dec 2020 · Mirpur DOHS, Dhaka

- ▶ Developed web and mobile applications, maintained WordPress products, and managed development delivery for client projects.
- ▶ Worked with JavaScript, Node.js, Express.js, React, React Native, TypeScript, Laravel, MongoDB, WordPress, Docker, AWS, WebRTC, PubNub, and Twilio Video.

SELECTED PROJECTS

- ▶ **Local AI Agent Platform:** Built local-first AI environments with Ollama, llama.cpp, vLLM, Open WebUI, ChromaDB, JWT-protected gateways, model routing, OpenAI-compatible endpoints, and resource controls.
- ▶ **LocalLens Multi-Agent Business Discovery:** Designed an agent workflow for intent extraction, location resolution, multi-source search, crawling, review aggregation, sentiment analysis, ranking, and grounded summarization using Python, FastAPI, LangChain, LangGraph, Ollama, Hugging Face, and ChromaDB.
- ▶ **Multi-Tenant Pricing & Indexation Platform:** Designed organization-scoped services for spreadsheet ingestion, PostgreSQL storage, S3 retention, RabbitMQ workers, validation, search, and audit history.
- ▶ **Audit Log SaaS & Notification Platform:** Designed reusable event ingestion, Elasticsearch-based audit search, email/SMS/push delivery, retries, templates, provider abstractions, and npm client packages.
- ▶ **Under-Vehicle Scanning System:** Developed a computer-vision pipeline for frame extraction, feature detection, homography estimation, perspective correction, image alignment, and panoramic stitching of vehicle undercarriages.

EDUCATION

Master's Degree, Information Technology · Jahangirnagar University (2017 – 2018)

Bachelor of Science, Food Process Engineering · Hajee Mohammad Danesh University of Science and Technology (2008 – 2015)

AWARDS & PUBLICATION

- ▶ **First Runner-up — Microsoft Imagine Cup 2011 Bangladesh**
- ▶ First Position — Multimedia Software Competition
- ▶ Publication: "Performance Evaluation of Small Scale Energy Efficient Mixed Flow Dryer for Drying of High Moisture Paddy"

LANGUAGES

Bangla — Native **English** — Professional working proficiency