

Mukitul Islam Mukit

Dhaka, Bangladesh | Open to Remote Positions & Relocation

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SUMMARY

Senior Software Engineer with **9+ years** building fullstack systems for **YC-backed startups**, B2B SaaS, and platforms operating at national scale. Specialize in **Node.js/React** ecosystem, high-throughput distributed APIs, event-driven systems with message queues, caching strategies for low-latency reads, and **production AI integration**. Comfortable in **async, fully-remote, cross-functional teams** across time zones, owning services end-to-end from system design through on-call. Currently shipping **AI-powered** features on a **US-based remote team** & personal **SaaS** business, with prior experience leading engineers on systems that processed millions of deliveries per month across all over Bangladesh.

PROFESSIONAL EXPERIENCE

Trackwell Inc, USA

Jan 2024 – Present

Senior Software Engineer (Remote, USA)

trackwell.io

US-based platform for tracking legal cannabis products with personalized recommendations.

- **Own backend architecture end-to-end:** fault-tolerant TypeScript/Node.js services, GraphQL APIs, AWS infrastructure, authentication/authorization, MySQL/Prisma, Redis, BullMQ.
- Built the **AI product label scanner:** Photo to AWS Textract OCR to LLM-based extraction with OpenAI structured extraction, then fuzzy match against a 5K+ SKU Elasticsearch product catalog. Core to the consumer onboarding flow.
- Engineered automated catalog ingestion: **Apify-based scrapers** for third-party product sites and a parsing workflow that turns producer-submitted lab test PDFs into structured product attributes.
- **Performance Optimization:** Optimized APIs by rewriting data loaders and N+1 GraphQL resolvers.
- Setup the company's **CI/CD pipelines and AWS infrastructure** from scratch with IaC (CDK), monitoring, alerting; mentor the junior backend engineer through system design discussions and PR review.
- **Tech Stack:** TypeScript, Node.js, GraphQL, MySQL, Prisma, Redis, Elasticsearch, AWS, OpenAI, AWS Textract, React, etc.

ShopUp, Bangladesh

Aug 2020 – Nov 2023

Senior Software Engineer

shopup.org

ShopUp is Bangladesh's largest B2B commerce platform. Worked primarily on **RedX**, its logistics arm - **50%+ of all e-commerce deliveries in Bangladesh**, 7,000+ riders, **\$13M+** annual revenue, **~386K** monthly unique visitors.

- **Issue Resolution Platform (Tech Lead):** Re-architected the support escalation system handling **50,000+ tickets/month**; closing **~60% of issues without human** intervention; built SLA-driven engine. Designed the data model and schema.
- **Performance engineering:** Diagnosed 50+ slow endpoints through **production debugging, incident response**, query profiling, and caching strategy redesign during a targeted optimization sprint; reduced p99 API **response time by 80%**.
- **Accounting & reporting engine:** Designed the **distributed system** that generates RedX's financial reports. Built for high availability with **idempotent processing** designed for horizontal scalability across millions of daily events.
- **Bulk operations platform:** Built courier-side bulk product ingestion (Excel, CSV, and partner APIs), removing manual data entry for high-volume sellers handling **millions of product uploads** per month.
- **Internal tooling & QA:** Authored utility libraries and SDKs; wrote automated unit & integration tests for critical repos.
- **People & hiring:** Mentored **5-6 junior engineers** across agile/scrum teams; actively participated in system design discussions, PR reviews from other team members. Interviewed **50+ candidates** as part of the company hiring loop.
- **Tech Stack:** TypeScript, Node.js, NestJS, Express, MySQL, Redis, RabbitMQ, React, Next.js, Go, etc.

Shorol Limited, Bangladesh

Mar 2019 – Jul 2020

Tech Lead

shorol.io

- **Led a team of 4 engineers;** architected a micro-loan platform and B2B cash-on-delivery integration; B2B integration layer for Backpack Inc. (YC-backed); shipped an **offline-first** health directory for the **Ministry of Health Bangladesh**, Established CI/CD culture.
- **Tech Stack:** TypeScript, NestJS, GraphQL, React, PostgreSQL, Nx, Docker, GitLab CI, GCP.

Backpack Technologies Inc, USA (YC Funded)

Software Engineer (Remote, USA)

Jun 2018 – Jan 2019

backpackbang.com

- Increased **GMV by 32% in 6 months** with data-driven features; Automated Product Request System, reducing manual support by 95%; Improved ticket resolution by **40% with a real-time support** dashboard.
- **Tech Stack:** React, Redux, Node.js (ExpressJS), MySQL, AWS.

Durbin Labs Limited

Junior Software Engineer

Sep 2017 – May 2018

durbinlabs.com

- Built an **automated AWS server** orchestration system; delivered an **ERP/workflow platform** for International Trade Management; **Co-built DuMedico**, a Hospital Management System.
- **Tech Stack:** React, Node.js (MeteorJS), AWS, MongoDB, etc.

PROJECTS

Karigor AI - All-in-one AI Platform for SMBs

Co-Founder & Lead Architect

Jul 2025 – Present

karigorai.com

- **The Problem:** SMBs in Bangladesh lose thousands of hours to manual customer support.
- **The Solution:** Architected & developed an AI-native SaaS platform that automates support and centralizes multi-channel communications (WhatsApp, Messenger, Web) with AI bots & human agent collaboration.
- **Tech Stack:** Next.js, Node.js, OpenAI API/LLMs, Vector Databases, PostgreSQL, WebSockets for real-time messaging, Event-driven Job Queue for asynchronous tasks, Upstash, Convex, Vercel, etc.

Codealoy - Code Learning Platform in Bangla

Founder & Lead Maintainer

Oct 2024 – Present

codealoy.com

- **The Problem:** Lack of high-quality, interactive coding education resources in the Bengali language.
- **The Solution:** Built a free, open-source interactive learning platform within browser code editor/runner.
- **Tech Stack:** React, AstroJS, Cloudflare Workers, PostgreSQL, TypeScript, GitHub Actions (CI/CD), etc.

SKILLS

- **Languages:** TypeScript, JavaScript, SQL, Bash, HTML, CSS, Python, Go.
- **Backend:** NodeJS, NestJS, Express, Hono, RabbitMQ, Kafka, AWS SQS, AWS Lambda, REST APIs, GraphQL, Webhooks.
- **Frontend:** React, Next.js, React Admin, Astro, Tailwind.
- **Data:** PostgreSQL (Postgres), MySQL, Redis, Elasticsearch, Prisma, MongoDB, Schema Design, Data Modeling, Caching.
- **AI:** OpenAI SDK, Vercel AI SDK, Retrieval-Augmented Generation (RAG), AWS Textract, Mastra, Langfuse, Braintrust.
- **Security:** Authentication & Authorization, OAuth 2.0, JWT, Role-Based Access Control (RBAC).
- **Infrastructure:** AWS (Amazon Web Services), GCP, Cloudflare, Vercel, Docker, K8s, GitHub Actions, GitLab CI, Linux VPS.
- **Observability:** OpenTelemetry, Datadog, Sentry, New Relic, PostHog, Google Analytics.
- **Testing:** Jest, Vitest, Playwright, Test Driven Development (TDD), Unit & Integration Testing, E2E Testing.
- **Practices:** Serverless Architecture, Distributed Systems, Scalable Systems, Event-Driven Architecture, Microservices, API Design, Continuous Integration / Continuous Deployment (CI/CD), Code Review, System Design, Agile / Scrum, OWASP.
- **Soft Skills:** Technical Leadership, Stakeholder Management, Cross-functional Collaboration, Mentoring, Problem Solving

EDUCATION

- **American International University Bangladesh** | BSc in Computer Science and Engineering | 2013 – 2017

ADDITIONAL INFORMATION

- **Spoken Languages:** English (fluent), Bengali (native).
- **Interests:** Amateur chess learner, puzzle solver, bike traveler, and reader (contemporary fiction & non-fiction).