SAMIUL ISLAM

Full-Stack Software Engineer

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Github **LinkedIn** **Facebook**

Full-Stack Software Engineer with 1.9+ years of experience building scalable SaaS and e-commerce applications using Node.js, Next.js, TypeScript, Express, Prisma, PostgreSQL, and MySQL. Experienced in designing REST APIs, backend systems, billing infrastructure, fraud prevention, and production-grade frontend applications. Passionate about scalable architecture, performance optimization, and AI-powered software.

TECHNICAL SKILLS

Languages: C, C++, TypeScript, JavaScript, Python, SQL
Front-end: React, Next.js, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, Prisma, REST APIs
Test: TDD, Jest
Databases: PostgreSQL, MySQL, MongoDB
DevOps & Tools: Git, GitHub Actions, Inngest, Docker, Cloudflare, Vercel

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer, SeloraX | link **Jan 2026 - Present**

Multi-tenant SaaS platform for Bangladesh's e-commerce market

- Designed and implemented a transactional credit-based billing engine using a reserve/confirm/rollback workflow with Inngest, ensuring data consistency during concurrent processing through an event-driven architecture.
- Built an AI-powered COD fraud prevention system using voice calls and IVR workflows, reducing manual verification efforts for admin-created orders.
- Integrated the Meta Conversions API with backend services to improve purchase attribution accuracy and enable reliable third-party API integrations.
- Led the migration from ad hoc Prisma schema updates to Prisma Migrate, improving database schema management and deployment reliability across the engineering team.
- Collaborated with frontend and backend engineers to design scalable backend services and RESTful APIs for a multi-tenant SaaS platform.
- Optimized backend workflows and database interactions to improve system reliability and maintainability in a production environment.

Web Developer, Naturo | link **Jan 2025 - Dec 2025**

E-commerce platform migrating from Laravel to a modern JS stack

- Engineered the frontend migration from Laravel to Next.js, modernizing the application with reusable React components and TypeScript.
- Built responsive, production-ready user interfaces with a focus on performance optimization, maintainability, and scalability.
- Designed, optimized, and debugged complex MySQL queries against denormalized database schemas to support high-volume e-commerce operations.
- Collaborated with backend engineers to define API contracts and integrate frontend applications with RESTful backend services.
- Contributed to a 300% increase in sales following the Laravel-to-Next.js migration through faster page loads and an improved user experience.

PROJECTS

SeloraX-AI: real-time call-centre AI

Live

Next.js 16 · TypeScript · Node.js · WebSockets · WebRTC (LiveKit) · MongoDB · SIP

- Built a multi-tenant SaaS platform where businesses create, configure and deploy AI voice agents that answer calls in the browser, on embedded website widgets and over phone lines (SIP).
- Designed a real-time audio pipeline with a custom Node.js voice gateway that streams 16 kHz PCM audio in 30 ms chunks over WebSockets. It supports both Gemini Live (speech-to-speech) and a pluggable STT → LLM → TTS pipeline (Google, OpenAI, ElevenLabs, etc).
- Added tool calling mid-call (HTTP tools with secrets resolved on the server, plus browser-side tools), a knowledge base with retrieval testing, and signed webhooks for call events.

Messaging App

Live

Next.js 16 · React 19 · TypeScript · Prisma 7 · MySQL · Better Auth · Tailwind CSS 4 · Vitest

- Built a multi-tenant SaaS where every organization's data is kept separate. Tests seed two organizations and check that neither can read, send as or bill against the other.
- Designed a public REST API (/api/v1/messages) with API-key authentication, cursor pagination, separate rate limits per organization for sends and reads, and idempotency keys so a client retry never sends or charges twice.
- Built a prepaid wallet and credit ledger. Debits use an atomic conditional update so two sends at the same moment can't spend more than the balance. Money is stored as exact decimals in an append-only ledger. Failed sends are refunded automatically.

SeloraxVoiceGM: Bengali Text-to-Speech Model

Hugging Face

PyTorch · Hugging Face Transformers · [LoRA / full fine-tuning] · Python

- Fine-tuned the OmniVoice speech model to generate natural Bengali speech, a language with few open text-to-speech options.
- Built the data pipeline: collected / cleaned / normalized ~3 hours of Bengali speech, with Bengali text normalization (numbers, abbreviations) and audio-text alignment.
- Trained on Nvidia RTX 4090.
- Published the model on Hugging Face with a model card.

EDUCATION

BSC in CSE, Southeast University — **Aug 2022 - Jul 2026**

- CGPA 3.19

Diploma in Engineering, Kurigram Politechnic Institute — **Jan 2017 - Jan 2022**

- Subject: Computer Technology
- CGPA 3.33

CERTIFICATIONS

HackerRank JavaScript (Basic) Skill Certification
Jan 2023 | Link

ADDITIONAL

Languages: English (professional working proficiency), Bengali (native).
IoT / Hardware: Hands-on experience with embedded systems, including a self-built smart door lock using ESP32-CAM, PIR motion sensing, RFID access, and a Python-based face recognition server.
Background: Competitive programming; consistently builds independent products on the side.
Interests: System Design, AI Applications, Distributed Systems.