

SAMIUL ISLAM SIAM

Full-Stack Software Engineer | Next.js | NestJS | Node.js

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SUMMARY

Full-stack Software Engineer with **3 years** of experience building and operating production systems in high-traffic e-commerce. Maintaining the backend of Rokomari's affiliate platform, a service driving **11% of company sales**. Led the migration of Rokomari's chat server from **Express to NestJS**. Strong in **Node.js/NestJS**, **SQL and NoSQL databases**, and event-driven processing with **RabbitMQ** and **Redis**, with equal comfort in shipping **Next.js** and React frontends.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML5, SCSS

Frontend: React.js, Next.js, Redux, SWR, TanStack Query, jQuery, JSP, Webpack

UI & Styling: Tailwind CSS, Bootstrap, Ant Design, Radix UI, NextUI/HeroUI, CVA + clsx, custom component libraries

Backend: Node.js, NestJS, Express.js, Spring MVC, REST API design, Authentication & Authorization, RBAC, JWT, Rate Limiting

Database & Tools: MongoDB, PostgreSQL, MySQL, Prisma, DBeaver, MongoDB Compass, pgAdmin 4

System: Redis, RabbitMQ, Kafka, WebSocket, Socket.IO, Webhooks, AWS S3

AI/Automation Tooling: MCP servers, N8N, local LLM integration (Ollama), Claude Code, Cursor

Infra & DevOps: Docker, Linux, Nginx, Git, GitHub, GitLab, CI/CD, Vercel, Netlify

Testing & Tooling: Jest, Playwright, Postman, Figma MCP, Playwright MCP

Practices: Agile/Scrum, peer code reviews, performance optimization, Core Web Vitals

EXPERIENCE

Rokomari.com — Software Engineer (Full Stack)

July 2024 – Present

Joined Rokomari as a frontend engineer and progressively expanded responsibilities across backend, including a real-time chat system and affiliate infrastructure.

Chat Server · NestJS, Redis, RabbitMQ, MongoDB, WebSocket

- Owned and maintained a production-grade **webchat backend** integrating Crisp CRM over **WebSocket** with a custom **AI chatbot**, automating **67% of customer support conversations**.
- Led the migration** of the chat server backend from **Express to NestJS**, introducing modular architecture, dependency injection, and consistent validation across the service.
- Added **Redis caching** for session and lookup data, reducing retrieval time from **50+ms to under 1ms**.
- Implemented **RabbitMQ**-backed bulk messaging to smooth send rates and **eliminate HTTP 429** failures against Crisp.

Affiliate Platform — Backend · NestJS, RabbitMQ, MongoDB, Mongoose

- Maintained the backend** of the affiliate platform, which drives **11%** of Rokomari's annual sales and handles **600+ orders daily**.
- Cut a complex **MongoDB aggregation** (\$lookup + \$group + \$facet pagination) from **~4.2s to ~350ms** by restructuring the pipeline and indexing strategy.
- Redesigned data synchronization between the main service and the affiliate service using **RabbitMQ**, dropping mismatched order counts from an average of **50 per day to 0**.
- Built a **RabbitMQ**-based asynchronous wallet and commission processing handling **1,000+ wallet update events per cron run**, giving reliable at-least-once delivery and eliminating race conditions in balance updates.

Affiliate Platform — Frontend · Next.js, Tailwind CSS, SWR, NextUI, NextAuth

- Implemented **role-based access control (RBAC)** with **Next.js middleware** and **NextAuth**, enforcing Admin, Manager, Account, and Affiliate permissions before rendering and closing unauthorized-access gaps.
- Built responsive dashboards and a **reusable Tailwind component set** now used across the affiliate portal.
- Built an **AWS S3**-backed banner upload and management system, giving marketing self-service control over campaign creative and increasing **campaign engagement by 25%**.

Main Storefront — Next.js Migration · Next.js, TanStack Query, Axios, Tailwind, SSR/CSR

- Reduced page load time from **11s to 3s** through lazy loading and render-path optimization.
- Brought the homepage within **Core Web Vitals** thresholds: **LCP 2.1s, INP 150ms, CLS 0.05**.
- Built a **custom styling library** (SCSS + CVA + clsx) to standardize component variants and keep UI consistent through the migration.

Rokomari Core Service — Legacy Platform & Team Practices · Java, Spring MVC, JSP, jQuery, Webpack

- Contributed to the **Spring MVC** core service: **JSP** pages, CRUD operations, and secret-key-secured **REST APIs** enabling server-to-server communication with the affiliate backend.
- Introduced an **AI-assisted UI development workflow** (Figma MCP, Playwright MCP, Claude Code CLI, custom playbooks) reaching **85–90% design-to-code accuracy** and measurably shortening design-to-implementation time.
- Reduced repeated image and file transfers by **11+ MB** through **TTL caching** and raised **Lighthouse** performance above 70.
- Worked in **Agile/Scrum** sprints and participated in **peer code reviews** to maintain consistency across the codebase.

6sense Technologies — Software Engineer Intern (Frontend) March 2024 – June 2024

- Developed diverse **themes** and **user interface** pages for **SaaS** products utilizing Next.js and Tailwind with **Jest** and **Playwright** test coverage.
- Implemented secure API requests using **JWT** and **session token-based** authentication with **axios interceptors**.
- Worked in an **Agile/Scrum** environment using **Jira** for sprint planning, backlog tracking, and coordination with teams.

Freelance — Full-Stack Developer (Contract) Oct 2023 – Jan 2024

- Built Sunpacs, an e-commerce storefront for an electrical goods retailer, as an independent freelance contract.
- Integrated **SSLCommerz** for local payment processing and implemented PDF **invoice** generation (jsPDF) for orders.
- Used Tailwind for a responsive, component-driven UI with **TanStack Query** for fetching and Namecheap cPanel for hosting.

PROJECTS

AI-Based Face Verification for Secure Online Voting

[vote-pulse.web.app](#) | [github.com/Samiislam851/Vote-Pulse-client](#) | [github.com/Samiislam851/votepulse-backend](#)

- Browser-based face verification using **Face-API.js** on **TensorFlow.js**, leveraging **WebGL** and **WebAssembly** backends for on-device face detection and identity matching.
- **Liveness-oriented verification flow** combining **face recognition**, **OTP**, and **JWT** authentication to prevent duplicate or unauthorized voting.
- **Stack:** React, Face-API.js, Node.js, Express.js, MongoDB, Firebase.

Real-time Chat Application

[github.com/Samiislam851/chat-app-MERN-ts](#) | [github.com/Samiislam851/chat-app-MERN-backend](#)

- **Real-time messaging** with online/offline presence, incoming notifications, and full authentication. With search service, friend list management, and friend-request flows.
- **Stack:** TypeScript, React, Node.js, Express.js, MongoDB, Mongoose, **WebSocket**, Socket.IO, Tailwind CSS.

EDUCATION

B.Sc. in Computer Science and Engineering - 2018 – 2023

Mymensingh Engineering College
University of Dhaka (Technology Unit)

Higher Secondary Certificate (Science) - 2017

Govt. Science College, Dhaka

Secondary School Certificate (Science) - 2015

Motijheel Govt. Boys High School, Dhaka

LANGUAGES

English : Professional working proficiency

Bangla : Native

Hindi : Conversational