

Md. Shejan Mahamud

Full Stack Developer

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Github | LinkedIn | Portfolio

Professional Summary

Full stack developer with expertise in building scalable and high-performance web applications using Nest.js, Node.js, Next.js and PostgreSQL. Skilled in designing and implementing secure, RESTful APIs to support dynamic SaaS platforms and complex integrations. Experienced in leveraging AI SDKs to deliver intelligent features and enhance product capabilities. Strong focus on system architecture, performance optimization, and seamless frontend-backend integration, ensuring reliable and production-ready solutions.

Technical Skills

Languages:	JavaScript, TypeScript, Golang
Frontend:	React.js, Next.js, Tailwind CSS, ShadenUI, TanStack Query, Redux
Backend:	Node.js, Express.js, Nest.js, REST
Database:	PostgreSQL, MongoDB, Redis, Prisma, Mongoose, Firebase
Tools:	BullMQ, NodeMailer, Passport.js, OpenAI, GroqAI, Stripe, bKash, SSL-Commerz
Others:	Git, GitHub, Postman, Swagger, Linux
Soft Skills:	Communication, Leadership, Problem Solving

Professional Experience

Front-End Developer (Intern)

Dev Cluster

June 2024 – Dec 2024

- Built and optimized responsive, user-friendly UIs using React.js, Next.js, Redux, ShadenUI and Tailwind CSS for an internal ERP system and a custom newspaper CMS.
- Integrated RESTful APIs with frontend components to ensure seamless data flow between backend services and the UI.
- Collaborated with backend developers to troubleshoot and fix bugs, improving application performance and reducing page load time by ~25%.
- Technologies: Next.js, TypeScript, TailwindCSS, TanStack Query, Shaden UI, Redux

Projects

Erazor AI - A Background remover SaaS

Server Client Live

- Developed scalable image processing SaaS using NestJS, Redis, and PostgreSQL, implementing BullMQ job queues for background removal operations with real-time WebSocket notifications and status tracking.
- Integrated comprehensive billing and authentication systems with Clerk and Polar, featuring subscription management, usage analytics, role-based permissions, and automated webhook processing.
- Implemented Redis caching strategies for dashboard analytics, user sessions, and rate limiting, reducing database queries by 70% and improving API response times from 200ms to 50ms.
- Designed robust rate limiting and security features using Arcjet for bot detection, DDoS protection, and API throttling.
- Built production infrastructure with Docker, PM2 clustering, Prisma ORM, automated database backups, and

comprehensive monitoring using Sentry for error tracking and performance optimization.

- Technologies: Nest.js, Next.js, PostgreSQL, Prisma, BullMQ, Clerk, Polar.sh, Socket.io, Redis, Nest Cron

NestQuest - Real Estate Web App

Client Server Live

- Designed and developed a real estate platform enabling Buyers, Agents, and Admins to interact seamlessly with role-based authentication using Firebase and JWT.
- Built a property listing workflow where Agents can add properties, and Admins must approve listings before they become publicly visible, ensuring platform quality and trust.
- Implemented an end-to-end purchase system: Buyers send offers to Agents; upon acceptance, payments are securely processed using Stripe integration.
- Developed a reviews & ratings feature for Buyers to leave feedback on properties and Agents, maintaining transparency as reviews cannot be deleted by Agents.
- Technologies: Express.js, MongoDB, Mongoose, React.js, Tanstack Query, Stripe, Firebase

Education

BBA. in Management

2026 – 2026 Running

Rajshahi College

Activities & Honors

- Open-Source Author – Published and maintain bKash-js, an npm package for seamless bKash payment gateway integration in JavaScript/Node.js applications.
- Open-Source Author – Created recaptz, a lightweight reCAPTCHA integration library for modern web applications.
- Technical Writer – Published articles on Medium about API development, tutorials and more tech topics.

Certificates & Trainings

- NestJS Masterclass - NodeJS Framework Backend Development (Udemy)
- Golang Backend Development (Go with Habib)

Languages

- English — Fluent
- Bengali — Native