

Rauhan Sheikh

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Professional Summary

Software Engineer with 2 years of experience building and maintaining production web applications in the education technology domain. Experienced in full-stack development using Next.js, React.js, Node.js, Express.js, PostgreSQL, MySQL, and Redis. Skilled in designing REST APIs, integrating third-party services, optimizing backend workflows, and developing scalable features for LMS and ERP platforms. Passionate about building reliable software, improving system architecture, and solving real-world business problems through technology.

Professional Experience

Software Developer | College Vidya

Noida, Uttar Pradesh, India | May 2024 – Apr 2026

- Developed and enhanced features for a production-grade LMS and ERP platform serving universities and educational institutions.
- Built a unified lecture management module integrating **Microsoft Teams, Zoom, and Google Meet**, enabling faculty to schedule and manage live classes from a single interface with automated attendance synchronization.
- Developed an **AI-powered online examination monitoring** module capable of detecting face absence, multiple faces, and background noise, with real-time incident logging to support online proctoring.
- Re-architected the bulk email delivery system by replacing browser-based processing with a **Redis-backed asynchronous job queue**, significantly improving reliability, scalability, and uninterrupted delivery of high-volume email campaigns.
- Designed and implemented RESTful APIs, business logic, and database workflows supporting student lifecycle management, academic operations, content delivery, and internal business processes.
- Integrated third-party services, optimized database interactions, and improved application performance by identifying bottlenecks and refactoring critical components.
- Implemented and maintained features across student management, academic operations, examination workflows, and content delivery systems.
- Promoted within six months in recognition of consistently delivering high-quality solutions, taking ownership of critical features, and contributing to process improvements across engineering teams.

Tech Stack: React, Next.js, Node.js, Express.js, PostgreSQL, Prisma, TypeScript

Freelance Web Developer

Remote / Part-time

Akshta Enterprises

Jan 2026 – Jun 2026

- Designed and developed a responsive business website from concept to deployment, translating client requirements into a production-ready solution.
- Managed full development lifecycle including requirement gathering, architecture, deployment, and revisions.
- Optimized website performance, SEO, and accessibility to improve user experience across desktop and mobile devices.
- Implemented custom business communication solutions, including email integration, contact forms using EmailJS, and direct WhatsApp connectivity.
- Worked directly with clients to transform business needs into technical solutions.

Tech Stack: React, Next.js, Node.js, Tailwind CSS, EmailJS, SEO Optimization, Deployment

Software Developer (Contributor) | Nirvamo

Jun 2026 – Present

- Contributing to the development and maintenance of a full-stack LMS platform built using Next.js, Node.js, Express, and MySQL.
- Investigate, debug, and resolve issues within an existing production codebase, improving application stability and user experience.
- Collaborate with the team using GitLab workflows, feature branches, and merge requests to deliver fixes and enhancements.
- Work across both frontend and backend layers to understand application architecture, business logic, and data flows.

Tech Stack: Next.js, React, Node.js, Express.js, MySQL, GitLab

Personal Projects

Second Brain ([Live](#) | [Backend Repo](#) | [Frontend Repo](#))

Personal knowledge management platform for collecting, organizing, filtering, and publicly sharing digital resources.

- Architected a full-stack “second brain” application enabling users to manage articles, tweets, videos, books, and custom resources with structured categorization and tagging workflows.
- Built secure authentication and sharing infrastructure using JWT-based access control, password hashing, and public share-link generation for collaborative knowledge distribution.
- Developed REST APIs for content management, filtering, and real-time responsive content updates.
- Designed a modern mobile-responsive frontend with masonry-based dynamic layouts, reusable React component architecture, content filtering, and optimized UX for cross-device accessibility.
- Implemented modular backend architecture with schema validation, MongoDB data modeling, middleware-driven security, and maintainable route separation.

Tech Stack: React.js, TypeScript, Node.js, Express.js, MongoDB, Mongoose, Tailwind CSS, Vite, JWT, Axios, Zod, Macy.js

BusinessOS (In Progress)

Commercial-grade multi-tenant SME business operating system (Ledger + SaaS platform).

- Architecting a ledger-first business management platform for retailers, wholesalers, and distributors with audit-safe financial workflows.
- Building secure multi-tenant backend systems for business onboarding, party management, receivables/payables tracking, and transaction lifecycle management.
- Designing immutable transaction architecture with reversal chains, dynamic ledger computation, role-based business isolation, and compliance-ready audit logging.
- Developing scalable full-stack SaaS infrastructure with session-based authentication, modular monolith architecture, responsive mobile-first UX, and future ERP expansion capabilities.

Tech Stack: Next.js, React, Node.js, Express.js, PostgreSQL, Prisma, Redis, TypeScript

Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS, Python, Java

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, REST APIs

Databases & Access: MySQL, PostgreSQL, MongoDB, Redis, Prisma

Tools: Docker, Postman, Linux, Git, GitHub, GitLab

Education

Master of Computer Applications (MCA)

IGNOU | Pursuing (Online)

Bachelor of Computer Applications (BCA)

Jamia Hamdard | 8.62 CGPA