MUHAMMAD AHMED SHAIKH

Full Stack Engineer | Next.js, React, TypeScript & Node.js | SaaS & AI Integrations

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PROFESSIONAL SUMMARY

Full Stack Engineer with 4+ years of experience building and shipping production SaaS platforms in real estate, e-commerce, and deal management, across 15+ projects. Strong in the MERN stack (MongoDB, Express.js, React, Node.js), Next.js, and TypeScript, taking features from database schema design through to deployment. Integrated the Anthropic Claude large language model (LLM) API into a commercial product using structured JSON outputs, Server-Sent Events (SSE) streaming, and custom prompt enforcement. Experienced with billing systems, real-time features, and multi-role platforms.

TECHNICAL SKILLS

Core Stack: MERN (MongoDB, Express.js, React, Node.js), Next.js, TypeScript

AI and LLM Integration: Anthropic Claude API, OpenAI API, Generative AI, Large Language Models (LLMs), Prompt Engineering, Structured JSON Outputs, Server-Sent Events (SSE) Streaming, Token Optimization

Frontend: Next.js (App Router), React, TypeScript, JavaScript (ES6+), Tailwind CSS, shadcn/ui (Radix UI), Framer Motion, Zustand, React Query, React Hook Form, Zod, React Hooks, Context API, Server Components, Responsive Design

Backend and APIs: Node.js, Express.js, REST APIs, WebSockets (Socket.io), JSON Web Tokens (JWT), OAuth, NextAuth v5, Role-Based Access Control (RBAC), Rate Limiting, Stripe (Subscriptions, Webhooks), node-cron, Nodemailer, Middleware, Request Validation, API Versioning, Strapi (Headless CMS)

Databases and ORM: MongoDB (Aggregation Pipelines, Indexing), Mongoose, Prisma ORM, Schema Design, Firebase

Tools and Deployment: Git, GitHub, GitHub Actions (CI/CD), Nginx, Vercel, Heroku, Postman, Sentry

AI-Assisted Development: Claude Code, GitHub Copilot, Cursor (AI-assisted development, testing, and debugging)

PROFESSIONAL EXPERIENCE

Full Stack Engineer | Quantum Skye Technologies | Remote | Jan 2023 - Sep 2026

- Delivered 15+ production projects for multiple clients, including multi-role SaaS dashboards, admin portals, backend APIs, landing pages, and CMS-driven websites.
- Engineered an AI script-generation engine on the Anthropic Claude API for a real estate investment SaaS platform, producing 15+ types of outbound, prequalification, and closing scripts with tone inference and offer routing tailored to each deal.
- Implemented structured JSON outputs, Server-Sent Events (SSE) streaming, and custom prompt enforcement to deliver reliable, real-time AI responses inside a commercial product.
- Resolved 30 to 60 second AI request timeouts on cloud infrastructure by building HTTP header flushing and keepalive write mechanisms, eliminating dropped connections on long-running calls.
- Designed 20+ data schemas with Prisma ORM and MongoDB; built Stripe billing for multi-tier subscriptions and credit-based usage tracking.
- Developed core investment logic including After Repair Value (ARV) calculations, dynamic repair estimates, buyer-matching algorithms, and automated deal temperature scoring.
- Delivered a deal and property management SaaS platform with real-time updates via Socket.io, multi-role admin and user dashboards, and versioned REST APIs.
- Automated market data refresh with node-cron background jobs and sent transactional email alerts through Nodemailer.
- Architected a multi-country e-commerce marketplace on the Next.js 14 App Router, using NextAuth v5 for authentication and Zustand for optimistic UI and high-performance state management.
- Refactored legacy components to remove anti-patterns such as improper absolute positioning and non-semantic markup, improving accessibility compliance and visual consistency across 1080p+ viewports.

Junior Software Engineer | Quantum Skye Technologies | Remote | Jan 2022 - Jan 2023

- Built front-end and back-end features on client web projects with React, Next.js, Node.js, and MongoDB.

Independent Software Projects

- Built a TypeScript and Express.js proxy service for secure, authenticated communication with the NexHealth API, with error-handling middleware, request validation, and environment isolation across local and cloud runtimes.
- Built a full-stack file-sharing application with Node.js and Express.js, featuring drag-and-drop upload, instant shareable URL generation, and server-side file lifecycle management.

EDUCATION

Certificate in IT (Graphics, Web & Mobile App Design) | Gexton Education | 2020

Intermediate (Pre-Engineering) | Govt Degree College & P.G Center | 2018 - 2020