HASSAN KHAN

Full-Stack Developer | Next.js, TypeScript, Node.js, PostgreSQL
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SUMMARY

Full-stack developer (BS Computer Science, 2025) who builds and ships complete products: authentication, role-based access control, payments, real-time features, automated tests and CI/CD. Built and deployed three projects, including a Stripe-integrated SaaS with 43 automated tests. Seeking my first full-time full-stack role.

TECHNICAL SKILLS

Frontend: React, Next.js (App Router), TypeScript, JavaScript (ES6+), Tailwind CSS, shadcn/ui, HTML5, CSS3
Backend: Node.js, Express.js, REST APIs, Next.js API Routes, NextAuth.js, JWT, Zod, Bcrypt
Databases: PostgreSQL, Prisma, MongoDB, Mongoose
Payments and Real-Time: Stripe (Checkout, webhooks), Socket.IO, dnd-kit
AI and Services: Google Gemini, Vercel AI SDK, Resend, Nodemailer, Cloudinary, Upstash Redis
Testing and DevOps: Vitest, Playwright, GitHub Actions (CI), Vercel, Railway, Neon, Git, GitHub

PROJECTS

FlowBoard: SaaS Project Management Tool Aug 2026 - Oct 2026
Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Stripe, Socket.IO, Vitest, Playwright | Live: flowboard-zeta-dusky.vercel.app | Code: github.com/hassan-khan07/flowboard

- Built a multi-tenant app with role-based access control (Owner / Admin / Member) enforced server-side on every workspace route, plus email verification and token-based member invites.
- Implemented a real-time Kanban board (dnd-kit, Socket.IO) and Stripe Checkout subscriptions with webhook-driven Free and Pro plan limits.
- Wrote 32 Vitest integration tests (real test database) and 11 Playwright end-to-end tests, run on every push in GitHub Actions CI.
- Tests uncovered and fixed 4 bugs, including a privilege-escalation gap where the invite API accepted role "OWNER" because validation existed only in the frontend form.
- Deployed on Vercel (app), Railway (Socket.IO server) and Neon (PostgreSQL) with separate test and production databases.

Mystery Message: Anonymous Feedback Platform Sep 2025 - Jan 2026
Next.js 15, TypeScript, NextAuth, MongoDB, Zod, Upstash Redis, Google Gemini, Vercel AI SDK | Live: mystery-message-orpin.vercel.app

- Built AI message suggestions with Google Gemini (streamed via Vercel AI SDK) on a public route, protected by Upstash Redis rate limiting (1 request per 15 minutes per user/IP) on Edge Runtime, with a fail-open fallback if Redis is unavailable.
- Implemented OTP email verification (Nodemailer), NextAuth JWT sessions, and Zod validation on every API route with a consistent ApiResponse type.
- Designed public shareable profile URLs (/u/[username]) separate from the authenticated dashboard, and handled re-registration of unverified users by updating records in place.

Real-Time Group Chat Application Aug 2025 - Sep 2025
React, Zustand, Node.js, Express.js, Socket.IO, MongoDB, Cloudinary, JWT | Code: github.com/hassan-khan07

- Built real-time group chat with admin and member roles using Socket.IO, and live online-presence tracking synced with the REST layer, without polling.
- Built a JWT-authenticated REST API with Multer file validation and Cloudinary image uploads; separated auth, chat and group state into independent Zustand stores.

EDUCATION

BS Computer Science, Institute of Space Technology (KICSIT), Rawalpindi Feb 2021 - Feb 2025

ADDITIONAL

Languages: English (professional working proficiency), Urdu (native). **Availability:** Immediately available; open to remote, hybrid or on-site roles.