ANISH KUMAR JHA

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SKILLS

Programming & Algorithms: JavaScript, TypeScript, Java
Frontend & Mobile: React.js, Next.js, React Native, Redux Toolkit, Zustand, TanStack Query, Tailwind CSS
Backend: Node.js, Express.js, tRPC, Socket.io
Database: PostgreSQL, MongoDB, Supabase, Firebase, Prisma ORM, Mongoose
AI Engineering: LangChain, Gemini, Claude, Assembly AI, Vercel AI SDK
Tools & Auth: Git, GitHub, Clerk, Zod, Jest, Next Auth, JWT, Vercel, Docker, Redis

WORK EXPERIENCE

TBP LABS TECHNOLOGIES — Remote
Software Developer Intern — Jun 2024 – Nov 2025
Tech Stack: Next.js, React Native, TypeScript, React Flow, Redux Toolkit, AWS Amplify, Framer Motion, Firebase

- Engineered the 20+ page Phloz marketing platform using Next.js, GSAP, and Framer Motion, building a custom design system on Radix UI primitives to replicate Figma mockups exactly; achieved **sub-1.2s LCP** and **95+ Lighthouse scores** via optimized AWS Amplify CI/CD pipelines.
- Spearheaded the TypeScrip**t** migration of **10,000+ lines** and implemented complex drag-and-drop conversational workflows using React Flow and Firebase, enabling automation capabilities that directly drove a **10% increase in recurring revenue**.
- Architected a resilience-first React Native communication layer using a custom **WebSocket** protocol with heartbeat/auto-reconnection logic and **AsyncStorage** caching; leveraged Reanimated and Redux Toolkit to ensure **sub-100ms UI latency** and smooth **60fps interactions** under high enterprise message volume.

PROJECTS

CodeContext — Oct 2025
Tech Stack: Next.js, TypeScript, Tailwind CSS, tRPC, PostgreSQL, Prisma, Supabase, Clerk, Google Gemini, LangChain, Vercel AI SDK

- Architected a **RAG-based** code intelligence engine using **Next.js** and **PostgreSQL (pgvector)**, implementing semantic search and file-level summarization to enable context-aware natural language querying of repositories.
- Engineered a fault-tolerant data ingestion pipeline with custom **concurrency** controls and exponential backoff, utilizing **TypeScript** to robustly handle API rate limits and ensure reliable indexing of large-scale codebases.
- Developed **real-time** streaming server actions using **Vercel AI SDK** and **React Server Components**, orchestrating **Gemini 2.5 Flash** to deliver instant, token-by-token generative responses.

TwitterScraper — Nov 2025
Tech Stack: Python, FastAPI, Twikit, AsyncIO, React, TypeScript, Tailwind CSS, Vite, Recharts, Vercel, Railway

- Engineered an **async FastAPI** backend using **Twikit** to reverse-engineer internal endpoints and fetch real-time data; implemented automated cookie rotation and caching to reliably bypass strict **API rate limits**.
- Built a React + TypeScript frontend to visualize live **sentiment and engagement metrics**; integrated client-side **NLP** to process data locally, eliminating server latency for large-scale analysis.
- Implemented **IP-based** rate limiting via **SlowAPI** and **LRU caching** to secure endpoints against abuse while reducing **redundant downstream requests**.

YAP — Apr 2024
Tech Stack: MongoDB, Express.js, React(Vite), Node.js (MERN), Socket.io, Zustand, Zod, JWT, Mongoose, Redis, Docker

- Built a **real-time** chat engine using Socket.io and Zustand, implementing live typing indicators, instant message delivery, and optimistic UI updates for a smooth user experience.
- Developed a **containerized backend** with Docker and Redis caching to improve performance, securing the API with Zod validation, generic JWT authentication, and HTTP-only cookies.

EDUCATION

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY — Rohini, Delhi
Bachelor of Technology (Computer Science & Engineering) — Expected 2026