

# ANISH KUMAR JHA

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## SKILLS

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**Programming & Algorithms:** JavaScript, TypeScript, Java, Python

**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

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### TBP LABS TECHNOLOGIES

Software Developer Intern

Remote

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 TypeScript 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

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### CodeContext

Oct 2025

Tech Stack: Next.js, TypeScript, Tailwind CSS, TRPC, Prisma, PostgreSQL, Supabase, Clerk, LangChain, AssemblyAI, AI SDK (Google), React Query, Zod, Server Actions, Vercel

- Built a robust AI-powered code intelligence platform to index entire repositories and deliver context-aware answers to natural-language queries across **50+ file codebases**.
- Designed a high-precision **RAG pipeline** integrating embedding generation, similarity search, function-level chunking, and dependency-aware context assembly — enabling developers to ask “how” and “why” questions about code and receive source-linked code references.
- Implemented a resilient repo-indexing pipeline with intelligent rate-limit handling, automatic retries, batching, concurrency control, and file-level sanitization. Added strict error-boundary and API-failsafe layers **around GitHub + Gemini calls**, enabling reliable processing of files under real-world rate limits and preventing data corruption.

### TwitterScraper

Nov 2025

Tech Stack: Python, FastAPI, Playwright, AsyncIO, Docker, React, TypeScript, Tailwind, Railway, Vercel

- Engineered an async **FastAPI** backend powered by **Playwright** to bypass login constraints and reliably fetch real-time Twitter data; deployed a containerized API on Railway with seamless client integration.
- Built a **Vercel-hosted React + TypeScript** frontend to stream search, profile, and trend data in real time, reinforcing my understanding of async pipelines, scraping workflows, and full-stack deployment.

### YAP

Apr 2024

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

- Architected an event-driven messaging engine using **Socket.io** and **Zustand** for global state management, implementing optimistic UI updates and live socket listeners to ensure instant, jitter-free communication.
- Engineered a production-grade, containerized **microservices** backend using Docker and Redis caching; enforced strict type safety and security standards via Zod validation schemas, JWT authentication, and hardened HTTP-only cookies.

## EDUCATION

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### MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

Bachelor of Technology (Computer Science & Engineering)

Rohini, Delhi

Expected 2026