

Aditya Kumar Rao

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EDUCATION

Chandigarh Engineering College

August 2022 – June 2026

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.4/10

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript

Frontend: React.js, Next.js, HTML5, CSS3, Shadcn, TailwindCSS

Backend & Databases: NestJS, Node.js, Express.js, GraphQL, TypeORM, MongoDB, PostgreSQL, MySQL, Redis, BullMQ

AI: OpenAI, Anthropic Claude, LangChain, RAG, Prompt Engineering

Tools & Platforms: Git, Docker, AWS (Cognito, S3, SES, Lambda), Google Cloud Platform, Vercel

EXPERIENCE

The Ninja Studio

May 2026 – Present

Backend Developer Intern – Canadian Freight Logistics SaaS Platform

Remote

- Migrated **7 AWS Lambda microservices** into a unified **NestJS monolith**, reducing deployment pipelines by **60%** and eliminating cold-start latency.
- Built **end-to-end auth flow** — OTP signup, email verification, company auto-provisioning, and role assignment — replacing **3 Cognito triggers**, cutting onboarding time by **40%**.
- Developed **BullMQ-powered shipment tracking** polling **4 carrier APIs** in real time, achieving **100%** in-transit coverage and improving status accuracy by **35%**.
- Wrote **Python scripts** for data migration, log analysis, and bulk MongoDB operations — reducing manual ops effort by **70%**.
- Resolved **40+ production bugs** across billing, notifications, and quoting — shipping **46 PRs**, improving platform stability by **20%**.

TCIL

June 2024 – Nov 2024

Full Stack Developer Intern

Chandigarh, Punjab

- Built full-stack apps using **MERN stack** with **optimized MongoDB aggregation pipelines**, improving query performance by **25%**.
- Designed RESTful APIs with Node.js and Express.js, reducing response time by **30%** via query optimization and **Redis caching**.
- Self-initiated **Python automation scripts** for database seeding and API load testing, accelerating QA cycles by **40%**.

PROJECTS

Buildr.ai | [GitHub](#) | [Live Demo](#)

(July 2025)

(Next.js, React, TypeScript, Prisma, TRPC, Inngest, E2B, Clerk, OpenAI)

- Developed an AI-powered website generator using Next.js and OpenAI APIs, enabling full-site creation from natural-language prompts.
- Built scalable backend using Prisma ORM, PostgreSQL, and NextAuth with role-based access control, improving deployment efficiency by 30%.

CueHire – AI Voice Interview Platform | [GitHub](#) | [Live Demo](#)

(September 2025)

(Next.js, React, TypeScript, Firebase, VAPI, GPT-4o, Deepgram, Vercel AI SDK, Zod)

- Built **AI voice screening platform** conducting real-time candidate interviews via **VAPI WebRTC** and **Deepgram STT**, replacing manual recruiter calls and reducing screening time by **80%**.
- Engineered **GPT-4o assessment pipeline** using **generateObject()** with **Zod schema**, producing type-safe scoring across **5 dimensions** with anti-gaming word-count calibration.
- Developed **admin dashboard** with bulk screening assignment, pipeline tracking, search/filter/sort, and automated result emails via **Firebase Auth** and **Gmail SMTP**.

Drone Survey Management System | [GitHub](#) | [Live Demo](#)

(May 2025)

(Next.js, React, Prisma, PostgreSQL, Google Maps API)

- Built **full-stack drone fleet management platform** with **real-time telemetry** visualization and **Google Maps API** integration.
- Implemented **mission state machine** for flight planning, execution, and monitoring with **SSR** and interactive map overlays.

ACHIEVEMENTS

- Solved **500+** DSA problems on [LeetCode](#)
- Ranked 1896** in Weekly LeetCode Contest 500 out of **27,274** participants
- Ranked 3003** in Biweekly LeetCode Contest 494 out of **34,424** participants
- SIH 2024 Finalist