

ADITYA GUPTA

Applied AI / Full-Stack Engineer

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Applied AI and full-stack engineer building production SaaS and AI-enabled systems across healthcare, evaluation, commerce, education, and operational workflows. I work across web, mobile, cloud, payments, data, and AI, using frontier development tools to accelerate implementation and ship reliable software for real users.

PROJECTS

Nirok - Native Healthcare App

Third Prize · Expo Track · HackHazards 2026

- Built an AWS-powered real-time conversation pipeline and converted AI responses to speech with Amazon Polly; drove a 3D nurse using programmatically configured facial and lip-sync animations.
- Matched conversation data against a 30K+ symptom database to generate structured medical histories and clinician-ready summary handoffs.
- Integrated live video consultations between the companion doctor web app and native patient app; won third prize in the Expo track at HackHazards 2026.

Tech: AWS real-time services, Amazon Polly, 3D animation, 30K+ symptom corpus, live video

AI Interviewer for PMIS

Smart India Hackathon · Top 20 of 250+ teams at IIT Madras

- Configured Vapi to orchestrate real-time AI interviews, capture spoken responses, and return confidence-aware scoring and actionable feedback.
- Built an LLM evaluation and recommendation layer that matched candidates to relevant internships and identified specific skill gaps.

Tech: React, TypeScript, Vapi, Supabase, REST APIs, LLM evaluation

Astha - NGO & CSR Platform

Used by real NGOs · volunteers · donors · corporate CSR teams

- Delivered role-based onboarding and dashboards used by real NGOs, with volunteer discovery, NGO project management, partnerships, and impact workflows.
- Implemented email, phone, Google, and Facebook authentication, protected routes, role-aware redirects, Supabase profiles, row-level security, validated forms, and reusable UI.

Tech: Next.js 15, TypeScript, Supabase Auth, Tailwind, Zustand, Radix UI, Framer Motion, React Hook Form, Zod

Paradox Merch & Experiences Website

Used by real customers for hundreds of merchandise and experience orders

- Processed hundreds of orders through a responsive storefront with GraphQL merchandise listings, filtering, gallery, unified cart, and Razorpay payment integration.
- Built live time-slot availability for Lazer Tag and LinkedIn Headshots, preventing overbooking across mobile and desktop booking flows.

Tech: Next.js 15, TypeScript, Tailwind CSS 4, Go, GraphQL, Razorpay, Vercel

EDUCATION

B.S. in Data Science & Applications

Indian Institute of Technology Madras (IIT Madras)

Expected Sep 2026 · CGPA 7.5/10 · Project CGPA 10.0/10

Relevant Coursework: AI: Search Methods for Problem Solving, Deep Learning, Big Data, Computer Systems Design, Computer Networks, Software Engineering

SKILLS

AI / LLM: LLM application development, AI evaluation, RAG, prompt engineering, Vapi, Amazon Polly, Ollama, PyTorch

Languages: TypeScript, JavaScript, Python, Java, Go, SQL, C++

Frontend / Mobile: Next.js 15, React, Angular, React Native/Expo, Tailwind CSS, Radix UI, Framer Motion

Backend / APIs: Spring Boot, Node.js, REST APIs, GraphQL, WebRTC, Supabase Realtime, microservices

Cloud / DevOps: AWS, GCP, Vercel, Docker, CI/CD, Git/GitHub, Cloudflare/WAF

Data / Security: PostgreSQL, MySQL, Supabase, Firebase/Firestore, OAuth2, RBAC, RLS, Zod

ACHIEVEMENTS

Third Prize - HackHazards 2026

Nirok won third prize in the Expo track.

Top 20 - Smart India Hackathon

Solo-built the PMIS AI interviewer in under two days; top 20 of 250+ teams at IIT Madras.

BS Connect - Real-Time Networking App for IIT Madras

Native mobile app · launching on Google Play

- Designed and built a 0-to-1 networking product with real-time group chat, QR connections, interest-based discovery, and live presence.
- Integrated Mapbox with Uber H3 spatial indexing to aggregate alumni locations into privacy-conscious area hexagons on a global interactive map.
- Engineered Supabase subscriptions for instant messaging and presence, designed to support 200+ concurrent users across one-to-one and group conversations.
- Shipped signed Android builds through Expo EAS to real users for rapid device testing and feedback ahead of the Google Play release.

Tech: React Native/Expo, EAS, TypeScript, Supabase real-time, Mapbox, Uber H3, auth, mobile UX

Sponsorship Operations Platform - IIT Madras Fest

Live with 30+ users across 10+ roles

- Built a 0-to-1 internal platform using AI to extract terms, deliverables, and cash and in-kind deal values from sponsorship SOP documents.
- Designed finance, ticketing, and deliverables workflows under strict role-based access, giving departments shared operational visibility.
- Deployed to 30+ users and governed INR 2 crore+ in deals and 300+ deliverables.

Tech: Next.js, TypeScript, Firebase, LLM document extraction, RBAC, real-time dashboards

HIGHLIGHTS

U.S. Citizen - eligible to work in the U.S.

Hands-on 0-to-1 builder - product discovery, system design, implementation, deployment, and iteration.

Production SaaS engineering - builds integrated ecosystems across web, mobile, cloud, payments, data, and AI.

AI-native engineering - uses Claude Max and ChatGPT Plus daily to generate, review, and iterate production-grade code while testing bleeding-edge tools against real problems.