

Rajveer Singh

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WORK EXPERIENCE

IABTM | *Full Stack Engineer Intern*

Remote · Sep 2025 – Present

- Re-architected production media infrastructure to **S3 + CloudFront**. Containerized Node.js services on EC2 and engineered a **CI/CD pipeline** via **GitHub Actions**, reducing release cycles to **under 15 minutes** and cutting storage costs by **40%**.
- Engineered a real-time group chat/voice layer (**Socket.IO**, **Mediasoup SFU**) with **sub-200ms latency**, and designed an autonomous **GenAI editorial pipeline** publishing **30+ curated stories** daily with zero manual review.
- Built a parallel chunked S3 upload service, lifting success rates to **99.4%**, and integrated **Shopify Storefront GraphQL** & **Resend** for seamless webhooks, checkout flows, and lifecycle email campaigns.

Modulus | *Full Stack Developer Intern*

Remote · Apr 2025 – Aug 2025

- Designed and built the product UI from scratch using **React/TypeScript**, creating a reusable **design system** with **audience-aware UX** decisions that powers 4+ surfaces; supported user-growth trajectory to **1,275+ MAUs**.
- Integrated 30+ REST endpoints and reduced critical page load by **66%** (3.2s to 1.1s) via **route-based code splitting** and list virtualization, achieving **95+ Lighthouse scores** and instrumenting full-funnel **PostHog analytics**.
- Shipped **Razorpay** (payments) and **Cal.com** (scheduling) integrations end-to-end with idempotent webhook handlers, successfully processing **Rs.10.8K** in platform transactions at **99.9% uptime**.

TECHNICAL SKILLS

Language&Frontend: TypeScript, JavaScript, Python, SQL, React, Next.js, Recoil, Tailwind CSS, Framer Motion, Plasmo

Backend: Node.js, Express.js, GraphQL, REST APIs, WebSockets (Socket.IO), Mediasoup, Microservices, BullMQ, Jest

Databases & AI: PostgreSQL, MongoDB, Redis, RAG, Qdrant

Cloud & DevOps: AWS (EC2, S3, CloudFront, ECS, Bedrock), Docker, GitHub Actions (CI/CD), PM2, Nginx, Puppeteer

PROJECTS

Safire (Safe DM) | *MERN, TypeScript, Plasmo, RAG, Gemini, Redis, Docker, Puppeteer*

[GitHub](#) | [Live Demo](#)

- Architected a real-time LLM harassment detector with **RAG (Gemini API)**, fronted by a **React/TypeScript Chrome extension** leveraging session-aware state management for inline content alerts.
- Built a **Dockerized** Node.js/Express microservice backend with a custom load balancer and **Redis read-through cache**, drastically cutting average detection latency by **60%** (480ms → 190ms).
- Automated tamper-proof evidence reporting via **Puppeteer**, generating cryptographically verifiable PDFs of harassment instances stored securely on **Cloudinary** with **100% data integrity**.

HyperPersona | *Node.js, TypeScript, Drizzle, PostgreSQL, Qdrant, Redis, BullMQ, Gemini, AWS ECS/Bedrock*

[GitHub](#)

- Architected an agentic recommendation engine as service in a 24-hour sprint with a 4-person team; built a 3-plane **microservice backend** in Node.js + TypeScript with **PostgreSQL** as system of record, **Qdrant** for 3,072-dim vector memory, and Redis-backed **BullMQ** for async embedding workers.
- Implemented an Agentic Cognitive Architecture (ACE) with **Chain-of-Verification RAG** over Gemini 2.5 Flash, deployed on **AWS ECS/ECR** with **Amazon Bedrock** + Strands Agents; selected as **Top 0.1% Finalist** at Technoverse 2.0.

10xAnswers | *React, Recoil, TypeScript, Node.js, Express, Gemini*

[GitHub](#) | [NPM](#)

- Shipped a reusable React AI chatbot SDK on **NPM** with **3,200+ downloads**, engineering zero-config integration via Recoil to deliver **100% context retention** across multi-turn conversations.
- Built an Express inference proxy bridging the **Gemini API** with retry logic and graceful timeouts, sustaining **99.5% uptime** and **120ms p50** response latency under high platform load.

ACHIEVEMENTS & LEADERSHIP

Impact: Shipped **5+ full-stack products** across internships and OSS, serving **5,000+ end users** and **3,200+ NPM downloads**; architected GenAI features and AWS infrastructure in production.

Hackathons: Winner of **4 national-level hackathons** including Code Kshetra 2.0 (**15,000+ participants**); Finalist at 4 others including Technoverse 2.0 (**22,000+ participants**).

Open Source & Leadership: Top 35 mentor in GSSoC; 16+ PRs to high-impact OSS (cms/100xDevs); Vice Chairperson, Web Dev at IEEE MSIT - branch of IEEE, the world's largest technical society (**400K+ members**, 160+ countries).

EDUCATION

Maharaja Surajmal Institute of Technology (GGSIPU)

Bachelor of Technology in Electronics & Communication Engineering

CGPA: 8.68 / 10.0

Delhi, India

2023 – 2027