

HARJOT SINGH RANA

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EDUCATION

Bachelor of Technology in Computer Science and Engineering | 2022-2026 | 8.20 CGPA
Guru Gobind Singh Indraprastha University | New Delhi, India

TECHNICAL SKILLS

Machine Learning & AI: LLMs, RAG systems, vector embeddings, multimodal models, OCR, NLU/NLP, evaluations
Engineering & MLOps: Python, TypeScript, Docker, CI/CD, Docker, Kubernetes, Redis, PostgreSQL, SQLite
Frameworks & Tools: LangChain, RAG systems, OpenAI, Gemini, LangGraph, Deep Agents
Cloud & Infra: AWS (S3, Lambda, ECS, SES), Azure Key Vault, Vercel, Render, Netlify, ELK stack

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer | Nov 2024 - Nov 2025 [SignVault.io](#) | Remote, Florida, USA

- Led the customer pilot outreach program; reached out to more than **2,000 people** and helped **convert 12 users**.
- Built the production backend API handling **4,000+ users** using **ExpressJS**, **Drizzle ORM**, and **PostgreSQL**.
- Engineered and implemented **high-volume real-time notifications** and collaboration features through **socket.io**; implemented secure e-signing for PDF documents using **Azure KeyVault**.

Technologies Used: NextJS, ExpressJS, Tailwind CSS, Redis, React Query, Drizzle, Docker, Turborepo, PostgreSQL, Zustand, Logto, Stripe, AWS S3, Nodemailer, GraphQL, Redis, Azure KV, Winston, Elasticsearch, Logstash, Kabana

Associate Trainee | Sep 2024 - Nov 2024 [LawSikho](#) | Gurugram, Haryana, India

- Scraped over **100,000 jobs** from various websites and performed data cleaning, **ensuring high-quality job listings**.
- Built a fully responsive and user-friendly dashboard UI using **NextJS** and **TailwindCSS**.
- Created an **admin dashboard** for monitoring logs, errors, and managing all job listings.

Technologies Used: NextJS, Supabase, TailwindCSS, ShadcnUI, BS4, Multithreading, WebSockets, AWS EC2, SES

Full-Stack Engineer Intern | Aug 2024 - Sep 2024 [Mindcase Technologies](#) | Gurugram, Haryana, India

- Developed an AI-based blog generation platform by implementing both the **OpenAI API** and **Reddit API**.
- Enabled existing users to generate blogs based on Reddit thread URLs.

Technologies Used: NextJS, OpenAI API, Reddit API, ShadcnUI, Tailwind CSS, i18next, Framer Motion

PERSONAL PROJECTS

[Verbflo](#) | [GitHub Repository](#) | [Live Demonstration Video](#) | [Live Website Link](#) November 2025

- Developed a **multimodal tool** processing video URLs for content creators (YouTube/Instagram/Facebook) to generate high-quality transcripts, visual analysis, research-driven question sets, and **ready-to-shoot video scripts**.
- Integrated audio processing, visual analysis, and **multimodal LLMs** to **synthesize signals into coherent outputs**.

[Flowzmith](#) | [GitHub Repository](#) | [Live Demonstration Video](#) | [Live Website Link](#) October 2025

- Built a platform that allows users to **generate full-stack Web3 apps** from plain English prompts.
- Deployed an MVP CLI version within **48 hours** during **ETHGlobal 2025**, built entirely on the **Flow blockchain**.
- Implemented a **custom-built RAG system**, along with **LangChain's "Deep Agent"** feature, to allow users to generate Cadence smart contracts with more than **96% accuracy** and deploy on main or test net with one click.

[Auto-MT](#) | [GitHub Repository](#) | [Live Demonstration Video](#) | [Live Website Link](#) September 2025

- Developed an end-to-end system that **automates the entire medical transcription process**.
- Automated a multi-step manual process **into a single pipeline**, reducing SOAP note generation time to **2-3 minutes**.
- Ingests handwritten/typed transcripts, extracts structured text, utilizes **fine-tuned LLMs** for domain-aware summarization, and **generates structured SOAP notes** matching client templates (training data).

ACHIEVEMENTS

- Achieved **1st place** in **Avalanche Team1** hackathon, Mumbai (August 2025); **secured a \$10,000 USD** mini-grant.
- Secured the **top-5 position** in **HackMSIT 5.0**, organized at MSIT, New Delhi (May 2024).
- Solved **more than 1,100 DSA problems** across platforms like [LeetCode](#), [HackerRank](#), and [GeeksForGeeks](#).