HARJOT SINGH RANA

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EDUCATION

Bachelor of Technology in Computer Science and Engineering | *2022-2026* | *8.156 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 **4,000 people** and helped **convert 20 users**.
- Built the backend API using **ExpressJS** and **Drizzle ORM,** using **PostgreSQL** as the database.
- Enabled **real-time notifications** and collaboration features through **socket.io** and designed a user interface and implemented 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

1. Achieved **1st place** in **Avalanche Team1** hackathon, Mumbai (August 2025); **secured a $10,000 USD** mini-grant.
2. Secured the **top-5 position** in **HackMSIT 5.0**, organized at MSIT, New Delhi (May 2024).
3. **Web Development Team Lead** at **Google Developers Group** (on-campus GTBIT) for the tenure 2024-25.
4. Solved **more than 1,100 DSA problems** across platforms like **LeetCode**, **HackerRank**, and **GeeksForGeeks**.