

Garvit Nag

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EDUCATION

Chandigarh College Of Engineering & Technology (Panjab University)

Bachelor of Engineering in Computer Science & Engineering, CGPA: 8.04

Chandigarh, IN

Dec. 2021 – June 2025

WORK EXPERIENCE

Software Development Engineer Intern

Jan. 2025 – June 2025

Stardom

Remote

- Architected and developed a comprehensive CMS platform for the rBrands website from the ground up, implementing scalable content management solutions.
- Collaborated effectively with an asynchronous remote team to deliver project milestones on schedule.
- Engineered seamless frontend-backend integration, implementing RESTful APIs and optimizing data flow between the website and server infrastructure.
- Designed and implemented responsive UI components ensuring consistent user experience across desktop and mobile platforms.

ACHIEVEMENTS

Gen AI Exchange Hackathon by Google

October 2024

Winner (Network 18 Track)

- Won first place in the Network 18 track at the Gen AI Exchange Hackathon organized by Google and Devfolio.
- Developed an innovative solution to combat misinformation in video content by engineering a robust media attribution and tampering detection system.
- See project: verifiedbycredify.vercel.app

PROJECTS

Qodex | Next.js 15, FastAPI, PostgreSQL, Pinecone | [Live Demo](#)

Feb. 2025 – Present

- Engineered an AI-powered RAG system using **Google Gemini** to enable natural language querying of GitHub repositories.
- Optimized ingestion latency to **5-20 seconds** per repository by implementing local vectorization models within a FastAPI backend.
- Deployed the backend architecture as a containerized **Docker** application on **Hugging Face Spaces** for scalable inference.
- Managed high-dimensional vector embeddings via **Pinecone** and persistent relational data via **PostgreSQL**, secured with Appwrite OAuth.

MediSage | Next.js, FastAPI, MongoDB, Stripe, Redis | [Live Demo](#)

Dec. 2024 - Feb. 2025

- Architected a SaaS health platform integrating **Stripe** webhooks for handling tiered subscriptions and **Clerk** for auth management.
- Engineered a custom rate-limiting middleware using **Upstash Redis** to prevent API abuse and optimize backend throughput.
- Implemented an interactive 2D anatomical mapping interface to precisely capture symptom localization.
- Enforced strict data validation using **Pydantic** schemas, ensuring type-safe JSON communication between the client and server.

RecipeRover | Next.js, TypeScript, Flask, Appwrite | [Live Demo](#)

Sept. 2024 – Nov. 2024

- Developed a content-based recommendation engine in **Flask**, utilizing filtering algorithms to personalize recommendations.
- Engineered multi-modal search functionality, allowing users to query the database via text, structured forms, or image inputs.
- Leveraged **Appwrite** as a Backend-as-a-Service (BaaS) to handle secure user authentication and real-time data storage.
- Optimized **MongoDB** aggregation pipelines to efficiently index and retrieve recipe data across large collections.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C/C++

Frameworks & Libraries: FastAPI, Flask, React.js, Next.js

Databases: MongoDB, PostgreSQL, Pinecone, Appwrite

Developer Tools: Git/GitHub, VS Code, Linux/Unix, Docker