

JESSICA AGARWAL

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SUMMARY

Computer Science undergraduate specializing in **Software Product Engineering** with expertise in MERN stack, AI/LLM integrations, and secure cloud deployments. Delivered scalable, production-ready applications including AI-powered assistants, HR systems, and e-commerce platforms. Experienced in team leadership, performance optimization, and solving real-world problems. Seeking an internship to contribute technical skills, gain industry experience, and build impactful products.

EDUCATION

JECRC University

2024 – 2028

B.Tech – Computer Science and Engineering – CGPA: 9.5/10

Jaipur, Rajasthan

- Specialization: Software Product Engineering with Kalvium

EXPERIENCE

Nirvana Chai

June 2025 – Aug 2025

Freelance Full-Stack Developer

Remote

- Developed complete company website from scratch with product showcase, e-commerce flow, and responsive design.
- Stack: **React.js**, **Tailwind CSS**, **Node.js**, **Express.js**, **MongoDB**.
- Increased brand visibility and enabled online sales; project undergoing final deployment.
- Strengthened full-stack development, deployment, and client communication skills.

PROJECTS

AI ScamBuster 📄 | FastAPI, Hugging Face Transformers, FAISS, Groq LLaMA3-70B, React.js

- Developed a real-time **AI-powered cybersecurity assistant** to detect, classify, and explain scam messages using **RAG pipelines**.
- Implemented **FastAPI** backend with **FAISS** for semantic retrieval and **Groq LLaMA3-70B** for explainability.
- Enhanced scam detection accuracy and boosted user trust through transparent, explainable AI workflows.
- Built a cyberpunk-themed **React.js** frontend for intuitive interaction and educational scam awareness.

HRX: Flexi Workforce Hub 📄 | MERN, Redis, JWT, Google OAuth, Jest, Render

- Engineered an **HR management platform** enabling employee records, leave requests, payroll processing, and performance evaluations.
- Secured endpoints using **JWT**, **Google OAuth**, and **OTP** with **RBAC** to segregate Admin, HR, and Employee roles.
- Integrated **Redis caching** for dashboards and leave data, reducing database queries by 60–80%.
- Implemented API rate-limiting (5 req/min sensitive, 200 req/15min global) and wrote backend unit tests in **Jest**.

AI Assistant Suite 📄 | Streamlit, LLM APIs, Python, Docker

- Built a **multi-tool AI productivity platform** with chatbot, document summarizer, and JSON data extractor in a unified **Streamlit** interface.
- Abstracted **LLM API** calls to allow flexible model swaps between OpenAI, Hugging Face, and local models.
- Implemented prompt templates, structured JSON outputs, and context injection for workflow integration.
- Dockerized the application for reproducible deployments across local and cloud environments.

E-Commerce Application 📄 | MERN, Redux Toolkit, Tailwind CSS, PayPal API

- Developed a secure and scalable **e-commerce platform** with user authentication, product catalog, cart, checkout, and order history.
- Integrated **PayPal API** and Cash-on-Delivery payment flows, with **JWT** authentication and HTTP-only cookies.
- Managed application state using **Redux Toolkit** and built a responsive UI in **Tailwind CSS**.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript

Frontend: React.js (Vite), Tailwind CSS, Streamlit

Backend: Node.js, Express.js, GraphQL

Databases: MongoDB, SQL, Firebase

Authentication & Security: Firebase Auth (Google & OTP), JWT, Google OAuth, RBAC, Rate Limiting

AI/LLM Integrations: Prompt Engineering, Structured Outputs (JSON), Summarization, Chat Interfaces

Tools/Frameworks: Docker, GitHub Actions CI/CD, Redis, Cloudinary, Postman, Canva, PDFKit, Jest, Redux Toolkit, FAISS

Version Control: Git, GitHub

OS: Windows, Linux (Ubuntu)

API Technologies: Hugging Face Inference API, Groq API, PayPal API, Firebase Auth API, Google OAuth 2.0, REST APIs

HONORS AND CERTIFICATION

- Contributor at GirlScript Summer of Code (GSSoC) 2025 – Open source contributions.
- Led a 6-member team in Smart India Hackathon 2024 Prelims — Project "Virtual Herbal Garden" shortlisted among Top 5 teams institutionwide.
- Built a Medicare LLM application at LNM Hacks 7.0 to check drug interactions and enhance patient safety.
- Technical Member & Social Media Handler, AWS JECRC – Managed AWS campus initiatives and outreach.
- Foundations: Data, Data, Everywhere – Google (Verify)
- Data Science Foundations – Great Learning (Verify)