

Simran

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EDUCATION

- **Vellore Institute of Technology** Bhopal, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.46 2022 – 2026

SKILLS

- **Programming Languages:** Python, Java, JavaScript, SQL
- **Frontend Development:** HTML5, CSS3, JavaScript (ES6+), ReactJS, Next.js, Bootstrap
- **Backend Development:** NodeJS, ExpressJS, FastAPI, REST API Development, Authentication and Authorization (JWT)
- **Databases:** MongoDB, MySQL
- **Cloud and DevOps:** AWS, Google Cloud Platform, Microsoft Azure, Git, GitHub
- **Core Concept:** Data Structures and Algorithms, Object Oriented Programming, DBMS, Operating Systems, Computer Networks

PROJECTS

- **FreshTrack – Predictive Food Waste & Risk Analytics Platform — MERN Stack, NLP & Analytics (Jul 2025):**
 - Engineered a predictive **food inventory risk analytics platform** monitoring 3,000+ products daily across multiple stores, reducing overall wastage through accurate spoilage prediction.
 - Designed a centralized **dashboard** for store managers showing real-time product insights — price, expiry, risk score — and automated alerts to trigger discounts or donations.
 - Implemented secure **Role-Based Access Control (RBAC)** to ensure data security and streamline operational access.
- **CraftConnect – Local Services Platform (Link) (GitHub):**
 - Engineered a scalable, full-stack platform on the **FReMP stack** connecting users with verified professionals, increasing reservation conversion rates by **45%** through optimized user experience design.
 - Integrated **agentic LLM-powered chatbot using IBM Watsonx**, orchestrated via LangFlow for real-time task execution through dynamic API orchestration and backend system integration.
 - Deployed secure **JWT-based authentication** with MongoDB data management and seamless payment processing, supporting **500+ concurrent users** with zero downtime performance.
- **Hospital Management System:**
 - Developed a full-stack **Hospital Management System (EHR)** using **FastAPI, React.js, PostgreSQL, and MongoDB**.
 - Implemented secure **JWT authentication, RBAC**, and RESTful APIs to ensure data privacy and HIPAA compliance.
 - Deployed containerized services via **Docker** on **AWS ECS/EKS** with automated **CI/CD pipelines**, achieving 99.9% uptime.
 - Optimized system performance for 1,000+ users and reduced patient processing time by 60%.

EXPERIENCE

- **Indian Space Lab - Intern** *Dec 2024 – Jan 2025*
 - **Satellite Data Analysis:** Composed a framework for automated quality control of satellite data, detecting over 1,000 anomalies per month and ensuring data integrity for downstream applications.

CERTIFICATIONS & TECHNICAL TRAINING

- AWS Certified Solutions Architect – Associate (Sep 2025)– Associate (Aug 2025)
- Microsoft Certified: Azure AI Fundamentals (Jun 2025)
- GEN AI Using IBM Watsonx, IBM (May 2025)
- AWS Solutions Architect - Associate Internship Program (May 2025)