

# Simran

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## EDUCATION

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- **Vellore Institute of Technology**

*Bachelor of Technology - Computer Science and Engineering; CGPA: 8.46*

Bhopal, India

2022 – 2026

## SKILLS

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- **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

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- **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

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- **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

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- 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)