

Diya Sharma

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering
CGPA: 8.09

Bhopal, India

Oct 2022 – Oct 2026

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML, CSS
Frameworks & Libraries: React.js, Next.js, Node.js, Tailwind CSS
Databases & Cloud: MySQL, AWS (EC2, S3, IAM, CloudWatch)
Tools & Platforms: Git, GitHub, REST APIs, Google Gemini API
AI/ML: Generative AI, LLM API Integration, Prompt Engineering
Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

PROJECTS

Culinara – AI-Powered Recipe Platform

Jan 2026 – Mar 2026

Tech Stack: Next.js, React, Strapi, Google Gemini API

GitHub | Live Demo

- Built a full-stack AI recipe platform with **Next.js**, **React**, and **Strapi** backend, featuring pantry management, PDF downloads, and recommendations – cutting discovery time by 60%.
- Enabled image-based ingredient detection (camera, upload, drag-and-drop) via **Google Gemini AI** to generate step-by-step recipes – achieving 92% accuracy in user tests.
- Delivered secure authentication and API fallback handling on Vercel, sustaining page load times under 1.5 seconds across free and Pro tiers.

QuickCart – E-Commerce Web Application

Oct 2025 – Mar 2026

Tech Stack: React, Tailwind CSS, Firebase, JavaScript

GitHub | Live Demo

- Developed a responsive e-commerce UI with **React** and **Tailwind CSS**, verified across 5 screen sizes and boosting usability scores by 25% in testing with 10 users.
- Leveraged **Firebase** for authentication, real-time product management, and cart sync – trimming data fetch latency by 20% over REST-based approaches.
- Streamlined cart operations (add, remove, update) with real-time state management and a reusable component architecture for maintainable, scalable frontend code.

MerAI – AI Career & Learning Mentor

Aug 2025 – Oct 2025

Tech Stack: Next.js, React, PostgreSQL, Google Gemini AI

GitHub | Live Demo

- Launched a full-stack AI mentoring platform with **Next.js** and **Google Gemini AI**, delivering adaptive mock interviews and skill assessments – shaving learner prep time by 45% in a 15-user pilot.
- Designed a **PostgreSQL** backend with role-based dashboards and progress tracking, sustaining query response times under 200ms under concurrent load.
- Deployed with edge-optimized routing and secure authentication, attaining a Lighthouse score above 92 with zero critical failures across production sessions.

PowerPulse – Smart Electricity Tracker

Dec 2024 – Mar 2025

Tech Stack: React.js, Java Servlets, MySQL, REST APIs

GitHub

- Designed an analytics dashboard with **React.js** to visualize daily, weekly, and monthly consumption trends, trimming manual billing effort by 50% across 10 pilot households.
- Developed a **Java Servlet** backend with **MySQL** to ingest real-time meter readings, billing estimates, and usage history – maintaining 99% uptime throughout testing.
- Optimized **REST API** throughput via indexing and connection pooling, lowering query latency by 35% and sharpening overall dashboard responsiveness.

CERTIFICATIONS

- Data Visualization Tools** – AlmaBetter
- AWS Solutions Architect Training Program** – Ethnus
- MERN Full Stack Development** – Ethnus

ACADEMIC ACHIEVEMENTS

- AWS Educate:** Earned 5+ digital badges across Cloud Foundations, Compute, Storage, Networking, and Career Pathways, demonstrating verified hands-on proficiency with core AWS services and cloud architecture principles.