

Nainsi Gupta

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Education

B.Tech. in Computer Science and Engineering

2022-2026

Vellore Institute of Technology | CGPA: 8.48/10

Technical Skills

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

Frontend: HTML5, CSS3, React.js, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js, MongoDB, PostgreSQL

Concepts: Data Structures & Algorithms (DSA), RESTful API Design, Object-Oriented Programming, Software Engineering

Tools & Platforms: Git, GitHub, VS Code, Supabase, Vercel, Render, Jupyter Notebook, AWS

Projects

CompetitorScan - AI Market Insights & Sentiment | Next.js, Node.js, Python, PostgreSQL, NLP Oct, 2025

- Architected a 3-tier microservice platform (Next.js, Express.js API, Python ETL) to track, analyze, and visualize actionable intelligence (Share of Voice, Net Sentiment Score) for competing startups.
- Implemented an NLP model using Zero-Shot Classification to solve contextual ambiguity, accurately assigning targeted sentiment when multiple competitors (e.g., "Swiggy" vs. "Zomato") are mentioned in one article.
- Developed a high-performance dashboard with React Query caching, debounced search, and server-side pagination, providing users with time-series trend graphs and a real-time, filterable news feed.

FreshTrack - Predictive Food Waste & Risk Analytics Platform | MERN Stack, NLP & Analytics Jul, 2025

- Built a rule-based predictive engine that analyzes 3,000+ product records daily using expiry data, category sensitivity, environmental factors, and customer feedback to generate spoilage-risk scores and alerts.
- Developed a centralized dashboard showing product-level insights (price, expiry, risk score, business impact) with automated discount/donation recommendations for near-expiry items.
- Engineered a full analytics pipeline integrating Excel dataset processing, proprietary risk scoring logic, donation matching, and smart suggestions (discount alerts, environmental alerts, inventory optimization) via scalable REST APIs.

CollabSphere - Campus Engagement Network | React.js, Node.js, Express.js, MongoDB, Web Scraping Jan, 2025

- Pioneered a full-stack social platform connecting 5,000+ users (student, alumni and faculty) with real-time chat, requests, and interactive modules (posts, comments, reactions, uploads), boosting user engagement.
- Integrated a job-scraping and NLP engine (Puppeteer, Cheerio, Natural) processing thousands of listings weekly to match profiles with high accuracy, improving job discovery efficiency.
- Engineered and optimized high-performance REST APIs and MongoDB queries, ensuring effortless scalability and consistently smooth data access for a rapidly expanding user base.

NagarSaathi - Powering Civic Tech for Every Ward | MERN Stack, Google OAuth, Tailwind CSS Nov, 2024

- Spearheaded the launch of a city-wide complaint management system integrated with ward-specific QR codes to enable citizens to instantly file and track municipal issues (water, drainage, waste) across all wards.
- Designed and implemented a multi-level user dashboard (Citizen, Ward Admin, Super Admin) featuring role-based access control (RBAC), advanced analytics, and automated report generation for efficient ward administration.

Internship

Software Development Engineer Intern | Bluestock Fintech (Remote)

Jan 2025 – Feb 2025

- Developed a React.js and Node.js-based admin dashboard for IPO management, reducing data entry errors and improving the market disclosure process within the compliance department.
- Collaborated on a production-level IPO web application and REST API used by internal teams, utilizing GitHub for version control and following rigorous code review practices to maintain industry-standard quality.

Achievements

Hackathon Recognition - Providence Leap Ideathon: Cleared the Second Round and recognized as a Next-Gen Thinker for designing an SMS/voice-enabled healthcare web app that improved data accuracy and enabled 3x wider reach in low-connectivity, underserved communities.

HP Power Lab 2.0: Cleared the First Round, now in the Prototype Round, designing an AI-driven IoT Traceability System (Smart Drainer AI) to standardize used oil collection data and ensure full EPR compliance for the circular economy.

Certifications

- OCI 2025 Certified Generative AI Professional – Oracle University (Oct 2025)
- OCI 2025 Certified Data Science Professional – Oracle University (Oct 2025)