

MAHENDRA CHOUDHARY

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EDUCATION

Vellore Institute of Technology

August 2023 – July 2027

Bachelors of Technology (B.Tech) in Computer Science & Engineering - CGPA: 8.87

Vellore, Tamil Nadu

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, SQL, Go, HTML, CSS

Frameworks: ReactJS, NextJS, Tailwind CSS, Node.js, Redux, React Native, Expo, ExpressJS, OpenCV

DevOps and API Tools: Git, Docker, Postman, RESTful API, FastAPI

WORK EXPERIENCE


Nido Home Finance – Edelweiss

May 2025 – July 2025

Data Management Intern

Mumbai, India

- Explored the capabilities of five enterprise-level metadata management solutions, including open-source platforms like OpenMetadata, and created a detailed comparison matrix focusing on features and scalability, impacting future data strategy.
- Enabled metadata-driven data discovery by integrating **OpenMetadata** for unified cataloging and impact analysis across teams.

Interact 

October 2024 – March 2025

Web Developer

Vellore, Tamil Nadu

- Engineered and maintained a scalable hackathon platform enabling end-to-end event hosting, submission workflows, team management, and real-time leaderboards, delivering a seamless experience to **3,000+ participants**.
- Implemented caching and horizontal autoscaling to keep latency sub-200ms during VIT's tech-fest **Yantra** peak traffic.

PROJECTS

Find Me a Breeze  | TypeScript | Next.js | FastAPI | Three.js


February 2025

- Winner - **2nd place at DevSoc - VIT Yantra 2025** among **1300+ participants**.
- Engineered a scalable FastAPI micro-service that ingests live wind-sensor data, greatly accelerating turbine-placement simulations and enabling faster iteration on optimal wind-farm layouts.
- Developed a **3D wind farm optimization tool** using fluid simulations and real-time visualization with **Three.js**.

SortIQ   | NextJS | Python | Prisma | GCP | PyTorch

February 2025

- Achieved **4th highest ranking globally** in waste segmentation with **91.2% accuracy** and **52.26 mIoU**, developed in just **40 hours**.
- Pioneered a deep learning pipeline using semantic image segmentation with a Mask R-CNN model to categorize waste into four classes: soft plastic, hard plastic, metal, and cardboard.

ExamCooker  | Next.js | Tailwind CSS | Prisma | GCP

June 2024

- Built a **comprehensive web platform** for VIT students with **11,000+ registered users** to access curated exam preparation resources, including notes, past papers, and an interactive forum.
- Implemented **secure GCP Cloud Storage integration**, enabling seamless retrieval and display of PDFs.

ACHIEVEMENTS

- 1st Place**, Women Techies – Google Developers Students Club VIT
- 2nd Place**, DevSoc – VIT Yantra

April 2025

February 2025

EXTRACURRICULAR ACTIVITIES

Association for Computing Machinery (ACM) Student Chapter

April 2024 – Present

Senior Core Member

Vellore Institute of Technology, Vellore

- Led technical enhancement for **ExamCooker**, improving user retention and content delivery speed.
- Managed and deployed infrastructure for **Cryptic Hunt** and **Reverse Coding**, supporting **800+ concurrent users** and ensuring seamless event execution.