

Marmik Pradip Kaila

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Education

Vellore Institute of Technology, Vellore

2023 – 2027 (Expected)

CGPA: 8.47

B.Tech in Computer Science and Engineering (Information Security)

Relevant Coursework: Data Structures, Algorithms, MERN Stack, Database Management Systems, Computer Networks & Network Security, Artificial Intelligence

Skills

Languages: C, C++, Java, Python, JavaScript, HTML, CSS

Libraries/Frameworks: MongoDB, Express.js, React, Node.js, Tailwind, Vite, SQL/SQLite

Tools/Software: Git, GitHub, Firebase, ImageKit, Figma, Canva, Postman, Thundercloud, Salesforce, Excel

Experience

Millennium Infra Market TBS Private Limited, Morbi, Gujarat ([Official Website](#))

June 2025 - July 2025

Intern – Web Development Project

- Designed and developed a user-friendly and responsive website for the company.
- Gained practical experience in both front-end and back-end web development technologies.
- Developed key management skills including team collaboration and time management.

TAG (Technology And Gaming) Club, Vellore

Mar 2024 – Present

Senior Core Member (Web Development & Management)

- Collaborated with team members to plan and execute large-scale events, ensuring smooth coordination.
- Gained practical experience in full-stack web development for functional solutions.
- Strengthened skills in team coordination, time management, and event logistics.

GLA (Gujarat Literacy Association), Vellore

Apr 2024 – Present

Senior Core Member (Design & Management)

- Enhanced user experience by designing intuitive and engaging interfaces.
- Gained strong UI/UX skills using Figma—wireframing, prototyping, and user flow optimization.
- Collaborated with cross-functional teams to deliver user-centered design solutions.

Projects

Patient Vitals Monitoring System

2025

Python (FastAPI, Uvicorn, Pydantic, Aiofiles), JavaScript, HTML/CSS

- Developed a modular health monitoring system with separate client, server, and web components.
- Built a Python-based simulator to generate patient vital signs (heart rate, SpO, BP, temperature).
- Implemented a FastAPI server with Uvicorn to process simulated data and expose REST APIs.
- Utilized Pydantic for data validation and Aiofiles for efficient async file handling.
- Designed a web dashboard (HTML, CSS, JavaScript) to visualize patient vitals with interactive charts.

Advanced Web Proxy Server ([GitHub](#))

2025

Python (socket, threading, logging, json), HTTP/HTTPS

- Architected a multi-threaded proxy server using Python's socket and threading libraries to significantly boost throughput and handle numerous concurrent client connections.
- Implemented a persistent caching system with Time-To-Live (TTL) expiration, drastically reducing latency and bandwidth consumption by serving frequent requests from a local JSON-based cache.
- Designed a robust traffic control system featuring rule-based filtering from an external configuration file and secure tunneling for HTTPS traffic via the CONNECT method.
- Engineered the application with a modular architecture for enhanced scalability and maintainability, incorporating a comprehensive logging system for real-time traffic analysis and debugging.

Certifications

• NPETL, Wildlife Ecology

[Certificate Link](#)

• Millennium Infra Market TBS Private Limited Internship Certification

[Certificate Link](#)