Sanjaykumar M

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EDUCATION

Vellore Institute of Technology Aug. 2023 – July 2027
Bachelor of Technology in Electrical and Electronics Engineering Chennai, India

- **GPA**: 8.97/10.00
- **Coursework**: IoT and Embedded Systems, Digital Logic Design, Engineering Mathematics, Control Systems
- **Academic Focus**: Embedded systems development, backend engineering, and applied AI-based systems

SKILLS

Programming: Python, Java, C, JavaScript, SQL
Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Flask
Databases: PostgreSQL, MySQL , MongoDB
Embedded & Hardware: STM32, Arduino, ADC, Timers, Interrupts, Embedded C
Tools: Git, GitHub, Postman, ST-LINK, Linux

EXPERIENCE

nStore Retech Private Limited June 2024 – July 2024
IT Support Intern Chennai, India

- Built a configurable order management system using Node.js and Express.js; integrated multiple delivery partner APIs with dynamic routing
- Designed real-time backend order tracking and developed mock APIs to streamline logistics testing
- Implemented fallback mapping logic between stores and delivery partners to improve system reliability

NLC India Limited May 2025 – June 2025
Electronics Intern Neyveli, India

- Studied thermal power plant systems including mill motors, ESPs, ID fans, and ash handling units
- Worked with relay coordination, control panels, and high-voltage protection systems
- Observed preventive maintenance and fault response mechanisms for HT motors and transformers

PROJECTS

nStore Automated Order Management System

- Developed scalable Node.js backend integrating multiple delivery APIs with dynamic routing logic
- Built modular REST APIs and fallback mechanisms to enhance delivery reliability
- **GitHub:** nStore Order System

Vestern AI Financial Web Application

- Built AI-driven finance platform using Node.js, PostgreSQL, Next.js, and Tailwind CSS
- Integrated LLM and time-series forecasting models for personalized financial insights

Power Quality Analyzer Embedded Firmware

- Developed STM32 firmware for real-time voltage, current, and frequency monitoring
- Implemented ADC-based data acquisition and signal processing for power quality analysis
- Implemented signal processing logic to detect voltage sags, swells, and harmonic distortions