Nishant Singh

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Education

Vellore Institute of Technology — Vellore, Tamilnadu
B.Tech in Electronics and communication Engineering; ***GPA: 9.06/10.00*** — *Aug 2021 – July 2025*
Vellore, Tamilnadu

Army Public School LBS Marg, Lucknow
Intermediate : **93.2%**
High School : **96.8%**

Technical Skills

Languages: C/C++, Java, Python, Verilog, SQL, HTML, CSS, MATLAB, R

Tools, Libraries and Frameworks: Frontend development, Embedded C programming, VLSI CAD, ML, MySQL, IoT domain Analyst,Numpy,Panda,Google Colab

Soft Skills: Decision Making, Problem Solving, Creative Communication, Critical Thinking, Adaptability

Experience

OROM CORP. — Vellore, Tamilnadu
frontend Developer — *January 2023 – March 2023*

- During my frontend internship, I developed and modified designs to enhance user experience, debugged issues for smooth and error-free performance, and created responsive web designs for optimal viewing on various devices. I collaborated with team members to effectively implement design changes, ensured consistent and aesthetically pleasing web layouts, adhered to best practices in web development, and improved website performance and loading times.

Apsis Solution — Bengaluru, Karnataka
Embedded Systems Intern — *Sep 2023 – Oct 2023*

- During my frontend internship, I developed and modified designs to enhance user experience, debugged issues to ensure smooth performance, and created responsive web designs for optimal viewing on various devices. I collaborated with team members to implement design changes effectively, maintained consistent and aesthetically pleasing web layouts, adhered to best practices in web development, and enhanced website performance and loading times.

Extracurricular Activities and Leadership Positions

Yantra 2024: As the organizer in the guest care and management department for Yantra at VIT University, I scheduled guest timings and stays, welcomed them, and ensured they had all amenities. I also reviewed their speeches and guided them to their events for a seamless experience.

Gravitas 2022: During Gravitas 2022, an international tech fest at my college, I volunteered in the Guest Care and Management department. I managed guest schedules and accommodations, ensuring a welcoming and organized experience throughout the event.

Projects

Car Price Prediction Using ML | *GitHub*

- The Car Price Predictor project uses machine learning regression models to forecast car prices based on features like year, mileage, model, and brand. By analyzing historical data, it provides insights into pricing trends, helping users make informed buying and selling decisions. This project showcases the application of machine learning in predicting market values and optimizing pricing strategies on car resale websites.

Smart Plant Monitoring System | *GitHub*

- The Smart Plant Monitoring System uses Node MCU with ESP12E IC and sensors like soil moisture, DHT11, and PIR motion sensors to monitor plant conditions. It transmits real-time data to Blynk.io for analysis and includes a motion alert system for enhanced security and plant care management.

OTA Firmware Update | *GitHub*

- The OTA Firmware Update project involves developing an Embedded C program for devices to fetch and update firmware from the cloud. It enables seamless updates without physical access, ensuring devices run on the latest firmware for efficient management and maintenance.

SR Flip-Flop using Sequential Circuit | *Research Project*

- This paper details the design and simulation of an SR latch using CMOS technology in Cadence. The SR latch, a key digital memory element, employs cross-coupled CMOS gates to store a single bit reliably. Additional feedback elements ensure stability and prevent race conditions. CMOS technology provides benefits like low power consumption, high integration density, and compatibility with modern semiconductor processes. Simulation in Cadence validates the latch's functionality and reliability, highlighting its importance in complex digital systems.

Relevant Coursework

Major coursework: Electrical Circuits, Digital System Design, Numerical Methods, Probability Theory, Electronics, Signals and Systems, Electromagnetic Field Theory, Communication Engineering, Introduction to Digital Signal Processing,Digital Communications, Introduction to Database Systems, Introduction to Image Processing

Minor coursework: Introduction to Object-Oriented Programming, Data Structures and Algorithms, Internet of Things Domain Analyst, Robotic and Automation, AIML, Cryptography and Network security

Certifications

Internet of Things foundation

Frontend Web Development

Forest and Their Management NPTEL

Training of Trainers NPTEL

Organizations

Institution of Engineers (India) IE(I) *Feb 2023 – Present*

Student Member