Nishant Singh

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PROFILE

I am a dedicated and ambitious Electronics Engineering student currently in my third year at Vellore Institute of Technology. With a passion for technology and a drive to innovate, with a current CGPA of 9.03

INTERNSHIP

Jan 2023 — Apr 2023

Front end Developer , Orom Corp
Vellore

- Developed a secure, interactive web application with a modern front-end framework and an intuitive user interface

Sep 2023 — Nov 2023

Embedded System Intern , Apsis Solution
Bengaluru

- Created an automated system for system patching and updates that improved system reliability and security
- Developing various design and logic for customized hardware and to efficiently code and perform the action.
- Worked on Various ICs and projects related to defense, communication and security.

EDUCATION

Apr 2018 — Apr 2021

10th,12th, Army Public School, LBS Marg
Lucknow

Completed my Matriculation and Higher Secondary from Army Public School LBS Marg, Lucknow

10th percentage is 96.8%

12th percentage is 93.2% (PCMB)

SKILLS

HTML	Expert	IoT domain analyst	Experienced
CSS	Experienced	java	Expert
Embedded System	Expert	DSA	Experienced

LANGUAGES

English	Highly proficient	Spanish	Very good command
Hindi	Native speaker		

PROJECTS

OTA firmware update

The OTA Firmware Update project utilizes ESP8266-01S and ESP12F microcontrollers to enable wireless updates for connected hardware. Firmware versions are stored on a cloud server. Arduino IDE is employed to code firmware fetching and comparison. If an outdated version is detected, the device initiates an OTA update, downloading and installing the latest version wirelessly. This process ensures devices consistently run the most recent firmware, optimizing performance and security. Remote updates eliminate the need for physical access, streamlining the update process and offering flexibility and scalability in firmware management for connected devices.

Smart Plant Monitoring System

In the Smart Plant Monitoring System project within the IoT domain, I integrated a range of sensors including soil moisture, DHT11 for temperature and humidity, and a PIR motion sensor, connecting them to a NodeMCU micro controller. The system collects data from these sensors, transmitting it to the Blynk.io platform, known for its interactive features. Through the Blynk app, users can monitor plant conditions remotely and control a motor pump as needed for irrigation. This setup provides real-time insights into agricultural environments, enabling efficient management and maintenance of crops while offering flexibility and control through remote access.

ACHIEVEMENTS

Badminton central command zonal level runner up

Taekwondo state level silver medalist

EXTRA-CURRICULAR ACTIVITIES

Gravitas 23′

As an active participant in the tech fest, Gravitas, at my college, I served as a student volunteer in the Guest Care and Management department. In this role, I took on responsibilities ranging from accommodating guests to maintaining detailed lists and facilitating interactions with esteemed guests. Handling various situations related to accommodation and ensuring the smooth operation of guest-related activities allowed me to develop strong organizational and communication skills.

Illuminia 23′

During my involvement with the IE(I) chapter at my college, I actively participated in organizing a hackathon event that garnered significant attention and participation. As a member of the organizing team, we successfully orchestrated a hackathon featuring various problem-solving tracks and questions to challenge participants' skills and creativity. This experience not only showcased my organizational abilities but also allowed me to contribute to fostering a culture of innovation within our academic community.

Yantra 24′

As one of the organizers of Yantra, our week-long tech fest, I assumed a leadership role overseeing the Guest Care department. My responsibilities included coordinating accommodation arrangements, managing guest lists, and facilitating interactions with special guests throughout the event. By efficiently leading the Guest Care team, we aimed to create a welcoming environment and provide exceptional hospitality to all participants and guests. This experience not only honed my organizational and managerial skills but also allowed me to play a pivotal role in the success of Yantra, contributing to its reputation as a premier event in our college community