

Vishesh Singhal

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Education

DAV Public School

Mar 2024

12th Grade

International Institute of Information Technology, Hyderabad

Jul 2024 – Jul 2028

B.Tech in Computer Science

International Institute of Information Technology, Hyderabad

Jul 2024 – Jul 2029

MS by Research in Geospatial Technology

Skills

Programming: Python (*Skillful*), C (*Skillful*), HTML/CSS/JavaScript (*Beginner*), Bash Scripting (*Beginner*)

Databases: MongoDB, MySQL (*Skillful*)

Frameworks: Flask (*Beginner*)

Courses

- Computer Programming
- Digital Systems and Microprocessors
- Intro to Software Systems
- Data Structures and Algorithms
- Intro to Internet of Things
- Intro to Spatial Sciences and Technology

Projects

Smart Irrigation System (IoT)

Built an IoT-based system using ESP32 and MQTT for automated irrigation with centralized threshold control and sensor data aggregation.

Health Monitoring System

Developed a smart wristband device using ESP32 and sensors to monitor SpO₂, temperature, and heart rate, with BLE data communication and remote alerts via Flask and Twilio.

Remote System Resource Monitoring

Created a tool to fetch and display CPU/RAM usage using ESP32, MQTT, and OM2M server, triggering alerts if thresholds are exceeded.

Achievements

- Built and hosted personal projects on GitHub and GitHub Pages.
- Participated in internal hackathons on IoT and Embedded Systems.

Languages

- English – Fluent
- Hindi – Native