Lochan Kumar

IoT Engineer

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Education:

Bachelor of Technology in Computer Science (8.50 CGPA)
(Internet of Things – Cyber Security including Blockchain technology)
Future Institute of Technology [2020-2024]
- Currently in the 3rd year of a 4-year program

Higher Secondary Education (60%)
Uttar Pradesh Basic Shiksha Parishad, Allahabad [2016-2017]

Skills:

- Proficient in Arduino, Raspberry Pi, NodeMCU, and similar IoT platforms.
- Experienced in integrating various sensors (temperature, humidity, motion, light) into IoT systems.
- Strong programming skills in Python, C/C++, Java for IoT application development.
- Knowledge of networking concepts and protocols (TCP/IP, UDP, MQTT) for data transmission and communication.
- Familiarity with IoT security principles, data encryption, authentication, and secure communication.

Projects:

Temperature Controlling Fan IoT Project:
I designed and developed an IoT-based system that autonomously regulates fan speed according to room temperature. The project encompassed several key tasks, including designing and implementing a temperature sensor using an Arduino Uno microcontroller and DHT11 sensor.

Android app development for real time cloud-based data monitoring and controlling of mesh network.
Developed Android app for real-time mesh network monitoring/control. Leveraged NodeMCU, Flutter for cross-platform development. Integrated Firebase for cloud sync/storage. Implemented intuitive UI, data visualization, interactive controls. Provided seamless remote monitoring/control. Strong skills in Flutter, NodeMCU, Firebase. Delivered efficient mesh network solution.

Certifications:

- Internet of Things (IoT) Specialization
- Master IoT with Python and Raspberry Pi
- Building IoT Applications with Raspberry Pi and Low-Code Platforms.

Summary:

Motivated 3rd year CSE student passionate about IoT's transformative potential. Specialize in innovative hardware-software solutions, skilled in Arduino, Raspberry Pi, and diverse sensors. Proficient in wireless protocols, problem-solving, and programming (Python, C/C++, Java). Collaborative team player, eager to contribute to IoT advancement and make a positive impact.