

Anandh S

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Languages: C++ , Python

Technologies & Tools: AWS, Blynk, Arduino, Raspberry pi

Education

Cavalier Institutions, Bengaluru

Bachelor of Computer Science (Expected Graduation: 2025)

2022 - 2025

CGPA: 7.5/10

Skills:

- Experience with microcontrollers
- System integration programming
- Technical support for software applications
- Hardware installation and configuration
- Python,C++

Projects:

• IOT Home atomization

The project uses an ESP8266 and the Blynk app to control four relays connected to appliances. GPIO pins are defined for relays and switches, and the Blynk app's virtual pins control relay states. The code includes functions to toggle relays based on the internet connection status and manual switch inputs. The Wi-Fi connection status is checked periodically, ensuring the system operates both with and without internet connectivity.

• Home automation Through Hand Gesture By Using Raspberry Pi

This project involves a Raspberry Pi-based home automation system controlled by hand gestures. Using a camera module and gesture recognition software, specific gestures (index, ring, pinky fingers, thumb) toggle appliances (bulb, fan, tubelight, buzzer). The system processes video frames to detect gestures and sends commands via relay modules to control the appliances. Coding is done in C++ for smooth operation.

• Penetration testing using IoT Device

To test a router's capacity ethically, use ESP8266 with legitimate network testing tools like iPerf. Configure the ESP8266 to simulate multiple clients and measure bandwidth and latency. Capture and analyze the performance data under various conditions. Document results, noting router capacity and limitations observed.

Extracurricular Activities:

- **IoT Projects Club:** Join or start a club where members work on IoT projects, such as home automation systems, smart sensors, and connected devices. Share knowledge and collaborate on innovative ideas.
- **Programming Courses:** Enroll in online courses or attend coding bootcamps that focus on IoT programming languages and frameworks, such as Python, C++
- **DIY Home Automation:** Work on DIY home automation projects, such as creating a smart home system that controls lighting, heating, and security using IoT devices and programming.

Interests:

- Full Stack Web Development
- Robotics
- Cloud Computing
- Cyber Security
- IOT
- Data Science & Machine Learning