Simanjit Hujuri

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Profile

Computer Science enthusiast with interests in programming, cybersecurity, AI/ML, robotics, and software engineering. A quick learner with adaptability and curiosity, committed to continuous improvement. Skilled in problem-solving and eager to apply knowledge to real-world challenges while exploring emerging technologies.

Education

Gauhati University Institute of Science and Technology *August 2023 – July 2027*
B.Tech in Computer Science and Engineering

Experience

Intern *Guwahati, India*
Airports Authority of India *1st June 2025 – 30th June 2025*

- Learned about networking technologies and their role in airport operations.
- Gained exposure to airport software including ATS (Airport Traffic System), AIMS (Airport Information Management System), and Asset Management System.

Intern *Guwahati, India*
Gauhati University Institute of Science and Technology *10th June 2024 – 10th July 2024*

- Learned about the fundamentals of cybersecurity and tools used for securing systems.
- Was introduced to AI/ML with Python, Cloud Computing, Robotics, IoT, and Graphic Designing

Projects

Low cost IoT sensors for Agriculture and Environmental Monitoring

- GitHub Repository: https://github.com/code-zephyrus/Agriculture-and-Environmental-Monitoring-tool
- Collaborated with a team to develop a low-cost IoT sensor node for real-time monitoring of environmental parameters (pressure, temperature, humidity, altitude, and soil characteristics such as moisture and NPK levels), with integrated wireless data transmission.
- Tech Stack: NodeMCU (ESP8266), BMP280, DHT11, Soil Moisture & NPK Sensors, TP4056 Power Module, Lithium Battery

Secure RSA Encryption and Decryption Tool

- Developed a Secure RSA Encryption and Decryption Tool that implements key generation, encryption, and decryption processes for safe data communication. The project demonstrates the practical application of public-key cryptography, ensuring confidentiality and security of transmitted information.
- Tools: Python, Cryptography Libraries.

Face Recognition System using Python

- Designed and implemented a face recognition system that detects, analyzes, and identifies human faces from images and live video streams. The project demonstrated practical application of computer vision, with features for real-time detection and recognition accuracy.
- Tools: Python, OpenCV, NumPy.

Technologies

Languages: C++, C, Python

Technologies: Cybersecurity, Linux, IoT, Web Development, Cloud Computing, Robotics, Git/GitHub