

# Sifat Mahmud

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## EDUCATION

- **Chittagong University of Engineering and Technology** Chittagong, Bangladesh  
*Bachelor of Science - Electronics and Telecommunication Engineering; CGPA: 3.65 January 2022 - March 2027*  
*Courses: , Data Structures and Algorithms, Object Oriented Programming, Control System, Artificial Intelligence, Machine Learning, Networking(CCNA), Databases, Microprocessor, VLSI*

## SKILLS SUMMARY

- **Languages:** Python, C, C++, HTML, CSS, JavaScript, SQL, JAVA
- **Frameworks:** Django, NodeJS
- **Tools:** GIT, MySQL, SQLite, ADS, emu8086, Cisco Packet Tracer, Matlab
- **Platforms:** Web, Windows, Arduino, Raspberry
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## PROJECTS

- **Progress Nest – Tech Learning & Sharing Website (Web Development, Database):** Designed and developed a technology-focused learning and sharing platform. Implemented content management and user data storage using SQLite. Tech: HTML, CSS, SQLite, Basic Backend Integration
- **Lumira Medica – Online Medicine Ordering System (Web Development, Database):** Collaborated with a newly established online medicine entrepreneur to develop a complete ordering platform. Designed the website and database system to manage medicines and customer orders. Tech: HTML, CSS, SQLite, Database Design
- **Personal Portfolio Website (Web Development):** Designed and developed a responsive personal portfolio to showcase projects, skills, and contact information. Focused on clean UI and professional presentation. Tech: HTML, CSS
- **RoboScout – Autonomous Surveillance & Detection Car (Automation, Computer Vision, Machine Learning):** Built an autonomous robotic car capable of detecting and counting persons and objects using camera-based vision. Integrated automatic and manual control using Raspberry Pi and Arduino. Tech: Python, OpenCV, Machine Learning, Raspberry Pi, Arduino
- **Wireless Power Transmission Using Coil (Electronics Project):** Designed and implemented a coil-based wireless power transmission system for low-power applications. Analyzed system efficiency and output performance. Tech: Inductive Coupling, Power Electronics
- **Smart Home Safety & Security System (Embedded Systems, IoT):** Developed an Arduino-based home safety system integrating gas, smoke, and intrusion detection. Implemented person counting circuit, laser-based security, and alert display system. Tech: Arduino, Sensors, Embedded Systems
- **Small Organization Network Design (Computer Networking):** Designed and simulated a small organization network using Cisco Packet Tracer. Configured routers, switches, VLANs, IP addressing, and tested network connectivity. Tech: Cisco Packet Tracer, Routing, Switching, Subnetting

## CERTIFICATIONS & BADGES

- **TryHackMe – Advent of Cyber 2025 (Certificate & Badge):** Successfully completed TryHackMe's Advent of Cyber (2025) by finishing all rooms and earning the official certificate and badge.
- **Engineering Design & Analysis with MATLAB:** Completed professional training conducted by the Institute of Information and Communication Technology (IICT), Chittagong University of Engineering & Technology (CUET), under the EDGE Project by Bangladesh Computer Council (BCC), ICT Division.
- **Data Analysis with Python – IBM (Cognitive Class.ai):** Successfully completed the Data Analysis with Python course powered by IBM through Cognitive Class.ai.
- **MATLAB Onramp:** Successfully completed MATLAB Onramp, covering MATLAB fundamentals, programming, and data analysis.
- **Building a Successful Business Website – Alison:** Successfully completed training on designing and developing a professional business website.
- **Cisco Cybersecurity Badge:** Earned Cisco Cybersecurity badge demonstrating foundational knowledge of cyber threats, security principles, and defense mechanisms.
- **Cisco Networking Basics Badge:** Earned Cisco Networking Basics badge covering networking fundamentals, IP addressing, and basic routing concepts.

## HONORS AND AWARDS

- **Third Position – Project Show, Digital Logic Design Course**  
Awarded third place for the project “*Safety Home and Security System*”, recognizing innovation in embedded system design and practical implementation.