

MD. MEZABUR RAHMAN RASEL

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EDUCATION

Bachelor of Science in Computer Science and Engineering Fall 2022 - Ongoing
United International University
12th Semester, Final Year

Higher Secondary Certificate (HSC) 2021
Shaheed Police Smrity College, Dhaka Board
GPA: 5.00

Secondary School Certificate (SSC) 2019
Bahadurpur High School, Jashore Board
GPA: 4.89

SKILLS & ACHIEVEMENTS

Skills:
Programming: C, C++, Python, Java
Web & App Development: React, Flutter, HTML, CSS, JavaScript, PHP
Database & Backend: MySQL, Django
Tools & Systems: GitHub, Ubuntu
Computer Skills: Fundamentals of Computers (Certified) [Certificate]
Achievements:

- Champion – UIU CSE Project Show Spring 2025 (System Analysis and Design Lab Course), Project ResQ (Android Application) [Certificate]
- 3rd Runners-Up – UIU CSE Project Show Summer 2025 (Microprocessors and Microcontrollers Lab Course), Project ARAM (Hardware) [Certificate]
- 4th Runners-Up – UIU CSE Project Show Fall 2023 (Advanced Object-Oriented Programming), Project EasyNeeds (Software) [Certificate]

PROJECTS

Project ResQ (Android Application) Spring 2025
UIU CSE Project Show, Champion – System Analysis and Design Lab Course

· Designed and developed a real-time emergency response system integrating **location tracking, SOS alerts, and first-aid guidance**, improving response efficiency in critical situations.
· Engineered a cross-platform mobile application using **Flutter** with scalable backend APIs built in **Django**.
· Recognized as **Champion** for outstanding system design, usability, and real-world impact.

Project ARAM (Hardware & IoT System) Summer 2025
UIU CSE Project Show, 3rd Runners-Up – Microprocessors and Microcontrollers Lab Course

· Developed an **autonomous IoT-based river monitoring system** for real-time environmental analysis.
· Integrated sensors to measure **pH, turbidity, and temperature**, with live data visualization through a monitoring dashboard.
· Contributed to **sustainable water quality assessment** using embedded systems and real-time data acquisition.

Project EasyNeeds (Software System) Fall 2023
UIU CSE Project Show, 4th Runners-Up – Advanced Object-Oriented Programming Lab Course

· Developed an integrated service platform to connect users with essential services including housing, food, healthcare, and education.
· Applied **Object-Oriented Design principles** in Java to ensure modular, scalable, and maintainable system architecture.

Project FarmFriend (Full-Stack Smart Agriculture System) Fall 2024
Software Engineering Lab Project – UIU

· Built a **data-driven smart farming platform** to support crop management, expense tracking, and resource monitoring.
· Developed a scalable architecture using **ReactJS** (frontend) and **Django** (backend) with efficient database design.
· Implemented intelligent features including **crop logs, fertilizer scheduling, irrigation tracking, and farmer profile management**.

Shadow Tracer Ongoing
Python, Machine Learning, Network Security

· Developing a unified framework for **zero-day intrusion detection** utilizing multi-network traffic datasets.
· Designing machine learning architectures implementing **Graph Neural Networks (GNNs)** and **Transformers** for advanced anomaly detection.

EXPERIENCE & LEADERSHIP

Graphics Lead – UIU Mariner (Robotics Team)
United International University 2026

- Served as Graphics Lead for UIU Mariner, the university's competitive robotics team.
- The team participated in MateROV 2026 in Canada and achieved **26th place among 36 teams worldwide**.
- Responsible for all visual design, branding, and presentation materials for the team.

Graphics Designer – APP FORUM (UIU Club)
United International University Ongoing

- Serve as Graphics Designer for APP FORUM, a technology-focused club at UIU.
- Create promotional materials, event graphics, and digital content for club activities.

Freelance Web Developer
Remote Ongoing

- Developed websites for international clients, delivering responsive and professional web solutions.
- Managed client communication, project planning, and full-cycle web development independently.

Volunteer – IRN Seminar on Renewable Energy and Intelligent Technology
UIU Mariner & UART (UIU Aerial Robotics Team) 2025

- Recognized for dedicated volunteer service and valuable contribution to the successful organization of the IRN Seminar on Renewable Energy and Intelligent Technology, jointly organized by UIU Mariner and UART (UIU Aerial Robotics Team). [Certificate]
- Commitment and support were instrumental to the success of the event.

RESEARCH INTERESTS

Cybersecurity, Machine Learning, Edge Intelligence, Internet of Things (IoT), Green Computing, Federated Learning, Software Development.