

Rose Chowdhury Ritu

FINAL YEAR CSE STUDENT · INDEPENDENT UNIVERSITY, BANGLADESH

Block G, Afroza Begum Road, H737, Bashundhara R/A ,

"Nothing is impossible , The world itself says I am possible" - Audrey Hepburn

Skills

- **Soft Skills:** Leadership, Team Collaboration, Communication, Problem Solving, Time Management, Adaptability, Analytical Thinking, Mentoring
- **Programming:** Python, Java, PHP, MYSQL, PostgreSQL HTML, CSS, JavaScript
- **Library and Frameworks:** NumPy , Bootstrap , Django, React, Fast API , Tensor Flow
- **Software:** VS Code, GitHub, XAMPP, Jupyter Notebook, Canva, Google Colab, Draw.io, Git and Git Hub

Experience

Undergraduate Teaching Assistant (paid) — Independent University, Bangladesh (IUB)

2022 - 2023

Departments: Computer Science & Engineering (CSE) and Physics

- Assisted faculty members in conducting lab sessions, grading assignments, and mentoring undergraduate students.
- Provided academic guidance and tutorial support to help students strengthen their conceptual understanding.

Education

B.Sc. in Computer Science and Engineering (CSE), Independent University, Bangladesh (IUB) *Start Date: August 2021 |*

Expected Graduation: April 2026 | CGPA: 3.79 / 4.00

Relevant Courses: Data Structure and Algorithms (In Python Programming)- Achieved A grade in both courses , Database Management (MY SQL)- Scored 100 out of 100 in Spring 2025, Web Development (HTML & CSS based Project) , Operating Systems- Achieved A grade

A Level, Loretto School, Dhaka

O Level, SFX Greenherald International School, Dhaka

Honours, Awards & Certificates

Academic Honours:

Dean's List, Dean's Merit List, Dean's Honour List, and Vice Chancellor's List for the year 2021, 2022 and 2024.

Scholarships:

Recipient of multiple IUB Merit-Based Scholarships for exceptional CGPA performance: 30%, 50%, and 100% tuition waivers across different semesters.

Volunteering & Competitions:

Actively participated in university public speaking competitions and volunteering programs, contributing to event organization, student engagement, and community outreach. Certificates earned for participating in these activities.

Courses & Certifications:

Completed professional courses from **Udemy** and **Edx through Harvard University and University of Adelaide** in : *Python Programming, JavaScript, HTML & CSS, Electronics, Neuroscience, Statistics, Logic Design, Google Sites, Bioethics, Cell Biology.*

Projects

Software Projects

Crimpsom Cup (Coffee Shop Blog Website): Developed a fully functional blog-based coffee shop management system with user authentication, admin dashboard, and CRUD operations using PHP, MySQL, XAMPP, HTML5 & CSS3 for Web Development Course as a complete solo project .

Inventory Management System for Database Management Course (Team Lead of the Project): Inventory Management and post harvest loss management System for Perishable Goods (e.g., vegetables and fruits) Focus: Track produce from harvest to distribution, minimizing spoilage using PHP, Xampp , MYSQL and Bootstrap.This was done as a team work and scored 100 out of 100 in the theory part of the course in Spring 2025 Semester .

Law Firm Management System (Django + PostgreSQL): Developed a full-stack web application to manage lawyers and cases using Django's MVC framework and PostgreSQL database. Integrated dynamic templates, CRUD-based lawyer and case management views, and an intuitive UI for seamless data handling and interaction as a complete solo project.

Image High - An AI based web application for object detection An AI-based web app for real-time image recognition that identifies objects from uploaded images using machine learning models. Built with React, Flask/FastAPI, and TensorFlow/PyTorch for seamless front-end and back-end integration.It was done as a solo project

My Calculator (Scene Builder and Java FX) : This calculator can perform addition , subtraction, multiplication and division This was done as a solo project.

Public Health Emergency Logistics System (PHELS) for System Analysis and Design Course: Developed a smart emergency logistics platform featuring IoT-based inventory tracking, real-time shipment monitoring, route optimization, and secure role-based access management for medical supply chains using React JS.

Link: github.com/abdullahfeb/PHELS_PROJECT

Hardware Projects

Line Following Robot: Built an autonomous robot capable of following a black line path using IR sensors and Arduino micro-controller for movement control.

Design of a Bangla Speaking University Assistant Robot : Designed to guide students in learning and reduce the workload of faculties and staff. Special focus on helping freshers/newcomers who lack information about the university

SoccerBot: Constructed an intelligent robot capable of detecting, chasing, and shooting a ball autonomously using ultrasonic and IR sensors integrated with motor control logic.

ROBO RACE CAR: Creating a circuit that connect different hardware components like Arduino , DC Motor , Motor Driver .First Hardware based project of University Life[4pt]