

Jasper Oliver D Rozario

☎ 01743382607 | ✉ jasper.odrozario@gmail.com | 🔗 linkedin.com/in/jasper-oliver-d-rozario | 🌐 github.com/jasperodrozario

Profile

A motivated CSE student from Independent University, Bangladesh (IUB), with all coursework now complete (Only Thesis remaining). Possessing a strong foundation in programming and problem-solving, passionate about web development and new technologies. I am a fast learner who thrives in collaborative environments. I am seeking to apply my skills to contribute to challenging projects in a professional environment.

Education

BACHELOR OF COMPUTER SCIENCE & ENGINEERING (CSE)

Jan 2022 - Apr 2026

MINOR - MANAGEMENT INFORMATION SYSTEM

Independent University, Bangladesh (IUB)

Current CGPA - 3.61 / 4

Projects

SEACYCLE - A SUSTAINABLE SEA WASTE MANAGEMENT SYSTEM WITH AI INTEGRATION (ONGOING PROJECT)

Technologies: HTML, CSS, Javascript, Next.js, Tailwind CSS, Express.js, MongoDB, InfluxDB, Claudinary, Gemini Vision API, Leaflet

Github Repo: <https://github.com/jasperodrozario/sea-cycle>

- **AI-Powered Debris Detection:** Uses the Gemini Vision API to analyze drone imagery and automatically detect, classify, and geolocate patches of marine waste.
- **Real-Time IoT Monitoring:** A simulated network of smart buoys provides 24/7 monitoring of waste accumulation in strategic "hotspot" locations.
- **GIS Dashboard & Route Optimization:** An interactive map dashboard (built with Next.js and Leaflet) visualizes all system data and calculates the most efficient collection routes for marine vessels.

EDUCONNECT - AI ASSISTED COLLABORATIVE LEARNING PLATFORM

Technologies: HTML, CSS, Javascript, Next.js, Tailwind CSS, Firebase

Live Demo: <https://educonnect-rouge-rho.vercel.app> | **Github Repo:** <https://github.com/jasperodrozario/educonnect>

- Developed the front-end of the prototype of an AI assisted learning platform for programmers.
- Topic based rooms for learners to collaborate.
- Integrated AI chat bot for real-time guidance.

BRAINWAVE - A SIMPLE STUDY HUB FOR LEARNERS

Technologies: HTML, CSS, Python, Django, SQLite, Tailwind CSS

Github Repo: <https://github.com/jasperodrozario/BrainWave>

- Implemented topic based rooms for teachers and learners.
- Implemented dynamic search by topic, room, chat etc.
- Added filter by topic functionality
- Built chat functionality in rooms

Technical Skills

- **Programming Languages:** Python, Java, JavaScript (ES6+), TypeScript.
- **Web Development:** HTML, CSS, JavaScript, Django, Node.js, React, Next.js, Express.js, MongoDB, Firebase.
- **Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management System (DBMS).
- **Software & Tools:** Microsoft 365, AI.
- **Design:** Graphics Designing (Intermediate).
- **Typing Speed:** 80-90 WPM.

Work Experience

SURVEY ENUMERATOR

Tearfund

Feb 2024 - Mar 2024

- Managed and coordinated a team of enumerators.
- Delivered projects successfully within deadlines.
- Successfully established communication in difficult scenarios. (i.e. talking to locals).
- Collected important and sensitive data with consent for the survey.

DATA ENTRY OPERATOR

Intelligent Image Management Limited (IIML)

2021 - 2022

- Analyzed and manually digitalized data from old hand-written documents with full accuracy.
- Delivered projects successfully within deadlines.
- Learned numeric and basic alphabets of a different language such as French, German etc. to complete various projects.

Achievements & Certifications

CCNA: INTRODUCTION TO NETWORKS

CISCO

Aug 2025

- Successfully completed CCNA Introduction to Networks (Module-1) from IUB.

ENUMERATOR TRAINING CERTIFICATE

Tearfund

Feb 2024

- Completed enumerator training and KoBo data collection process for the Church and Community Transformation (CCT) Impact Study Project.

THE DAILY STAR AWARD CERTIFICATE

The Daily Star

2020

- Received the daily star award certificate for achieving 6A/A*s in O-Levels.