

# Jasper Oliver D Rozario

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## 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.