

# Zelan Eroz Espanto

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## EDUCATION

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**Case Western Reserve University** Cleveland, OH  
*Bachelor of Science in Computer Science and Mathematics* Aug 2024 - May 2028  
GPA: 3.9 (Dean's High Honors List)  
Relevant Coursework: Data Structures and Algorithms, Multivariable Calculus, Discrete Mathematics, Linear Algebra  
Affiliations: Association of Computing Machinery - Women (Marketing Chair), CWRU Quants, ThinkImpact Fellow

## RELEVANT PROJECTS

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**Flick** (React, Nodejs, SQL) Mar 2025  
Developed a full-stack campus-based social media app that allows users to post thoughts, share events, and interact in real-time, fostering localized digital community engagement across student networks.

**Research on Stochastic & Deterministic Algorithms for Electroencephalography Data Denoising** May 2024  
Compared stochastic and deterministic algorithms for EEG signal denoising, contributing to knowledge on artifact removal accuracy; achieved an A grade on the IB Extended Essay, placing in the top 8% of students globally;

**ClubHub** (Java, Java Swing, MySQLite, OAuth 2.0, Google Sign-in API) Oct 2023  
Built a multi-role student organization management system; deployed at my high school to manage 70+ clubs, streamline inventory tracking, and automate attendance monitoring for club events.

## EXPERIENCE

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**Department of Computer and Data Sciences** Cleveland, OH  
*Teaching Assistant for CSDS 233: Introduction to Data Structures* Jan 2025 - Present

- Sole freshman on a six-member TA team, supporting 151 students through grading, technical troubleshooting, and academic guidance during and beyond class hours.
- Contributed actively to homework ideation, regrading policy creation, and course and grading enhancement.

**Beats by Dre** Cleveland, OH  
*Consumer Insights Data Analyst Extern* Nov 2024 - Feb 2024

- Selected for a competitive cohort analyzing consumer sentiment in the audio tech industry.
- Utilized Python, NLP tools, and Gemini AI to extract product insights and deliver a data-driven capstone on innovation and market strategy.

**Beacon** Cleveland, OH  
*Founder* Nov 2024 - Present

- Founded and developed a year-long mentorship and career readiness program for 7th–9th grade students in Cleveland; developed Value Proposition Model, program syllabus; launching pilot in Fall 2025.

**Career Center** Cleveland, OH  
*Career Consulting Intern* Oct 2024- Present

- Curates and distributes bi-weekly newsletters, connecting about 2500 students to opportunities, events, and career development resources.
- Dedicates 7 hours per week to providing personalized resume reviews and career guidance.

**Fish2Meta and Chubu University** Karuizawa, Japan  
*Pioneering Data Science Intern* Sep 2022 - Jan 2024

- Reduced data generation time by 50% and ensured consistent weekly reporting by developing Python source code to automate data extraction, cleaning, and visualization from whiteboard images of subjects' results.
- Recruited and trained 4 new student researchers, enhancing team efficiency through workshops in research design and coding in Python.

## AWARDS

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Karl Lemmerman Award for First-Year Writing | Case Western Reserve University | (Dec 2024)  
United World College Shelby Davis \$40,000 Annual Scholarship | Karuizawa, Japan | (May 2024)  
National Youth Excellence in Science Award | Department of Science and Technology of the Philippines | (Dec 2023)