Zelan Eroz Espanto

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EDUCATION

Case Western Reserve University
Bachelor of Science in Computer Science, Minor in Mathematics

Cleveland, OH
Expected Dec 2027

- Coursework: Database Systems, Data Structures & Algorithms, Linear Algebra, Discrete Math, Logic Design
- Awards: Point Wells Fargo Scholarship, UWC Davis Scholarship, Dean's High Honors List
- Affiliations: Association of Computing Machinery - Women, PhiMu, Break Through Tech, Code2040, SWE

EXPERIENCE

KPMG
AI Studio Fellow (Remote)

Aug 2025 – Present
Chicago, IL

- Built **predictive machine learning models** and **data pipeline** to estimate employee-level energy demand from task features and GPU configuration, combining structured data (energy logs) and unstructured data (task descriptions) using **NLP techniques** (NLTK, scikit-learn) and **Pytorch** to enhance sustainability reporting and strategic decision-making
- Collaborated with 5 student fellows across various universities and time zones, directly reporting progress, insights, and recommendations to a Managing Director at KPMG.

Cleveland Public Market Corporation (CPMC)
Business Strategy & Market Research Consultant

Aug 2025 – Present
Chicago, IL

- Collaborated with cross-functional MBA team through CWRU's XLab program to conduct comprehensive market research for West Side Market, Cleveland's largest and oldest continuously operating public market.
- Led **survey design, logic development, and questionnaire optimization** across multiple customer segments including vendors, tourists, local residents, and business stakeholders.
- Leads the framework and methodology creation for post-survey analysis to inform strategic recommendations for **market operation**, customer experience, and vendor support initiatives.

Department of Computer Science
Teaching Assistant for CSDS 233: Introduction to Data Structures (Java)

Jan 2025 – Present
Cleveland, OH

- Served as the youngest and only first-year TA for the department's largest course, supporting 150+ students through 100+ hours of labs, office hours, and exam prep.
- Helped achieve the highest student satisfaction rating in the course's history and a 15% increase in average scores by refining regrading policies, publishing targeted study guides, and mentoring an assigned cohort of students.

Eskwelabs
Education Innovation Fellowship Intern (Data & AI)

Jul 2025 – Sep 2025
Philippines

- Engineered an AI-driven question generator with NLP, cutting instructor content creation time by 70%, enabling personalized, scalable assessments across 10+ courses.
- Increased alumni job placement rates by 20% through comprehensive data analysis of 1,000 graduate profiles, using **Scrapy** and statistical modeling, and career trends that directly informed curriculum redesign for 15+ courses.

Beats by Dre
Extern

Nov 2024 – May 2025
Remote

- Delivered actionable product redesign recommendations by analyzing 2,000+ Beats Studio Buds reviews using advanced NLP techniques (TextBlob, NLTK, Gemini AI), **identifying critical pain points** that could influence $2M product line optimization decisions.

TECHNICAL SKILLS

Developer Tools: Power BI, Git, Tableau, Docker, Google Cloud Platform, VS Code, Excel and Microsoft Suite
Languages: Python, SQL, R, Java, C++, (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Libraries: NLTK, pandas, NumPy, Matplotlib, TensorFlow, OpenCV