Cesar Batrez-Delatorre

West Elsdon, Chicago, IL 60632

(773) 699-6672 || Cesar.btrez.del@gmail.com || github.com/Caesar1222

EDUCATION

Syracuse University

Syracuse, NY U.S.A.

• Bachelor of Science in Computer Science & Mathematics Expected Graduation, May 2028 Noble Street College Prep

Chicago, IL U.S.A.

June 2024

• High-School Diploma

TECHNICAL SKILLS

Languages & Tools: Google Apps Script | Haskell | HTML/CSS | Java | JavaScript | Python | SQL Libraries & Frameworks: Matplotlib | NetworkX | NumPy | Pandas | Scikit-Learn | TensorFlow Concepts: Data Structures | Graph Theory | Machine Learning | Data Visualization

WORK EXPERIENCE

Syracuse University

August 2025 - Present

Chicago, IL

AEW Facilitator

- Lead collaborative workshops for MAT 295: Calculus I to reinforce core concepts and problem-solving skills
- Design and facilitate interactive learning activities that promote student engagement and academic success

Lavner Education

May 2025 - August 2025

Technology Instructor

Chicago, IL

- Instructing over 30 middle and high school students in beginner to intermediate programming courses across multiple weekly sessions
- Designing over 20 interactive coding exercises using Python and JavaScript to reinforce key programming concepts and promote problem-solving skills

Chicago Field Museum

February 2024 - August 2024

Visitor Services

Chicago, IL

- Provided courteous and empathetic customer service, assisting 4,000+ daily visitors with inquiries and guiding through museum when needed
- Enhanced communication and interpersonal skills by welcoming guests, managing queues efficiently, and supporting cashiers during peak hours

Chicago Architecture Center

June 2023 - November 2023

Student Fellow

Chicago.IL

- Gained proficiency in architectural design software, including Rhino 7, Grasshopper, and AutoCAD, while honing physical skills such as lettering, sketching, and model making
- Collaborated with Just Roots Chicago to conceptualize and design a theoretical community center, integrating innovative ideas to consign community needs

RESEARCH EXPERIENCE

Syracuse University: SOURCE Explore

January 2025 - April 2025

Undergraduate Researcher

Syracuse, NY

- Conducted research on campus transit systems using Graph Theory and Dijkstra's Algorithm to evaluate route efficiency across 15+ shuttle stops and over 40 unique routes; identifying potential time savings of up to 27% through optimal rerouting
- Designed and implemented a graph-based model of Syracuse University's 36-stop shuttle system in Python using NetworkX, and created custom software to calculate shortest paths and optimize routing using Dijkstra's Algorithm
- Presented findings via professional research poster at the SOURCE Explore 2025 Symposium

Video Game Data Analysis | Python, Matplotlib, Pandas

- Conducted an in-depth analysis using Python and its libraries (Pandas, Matplotlib) to examine the impact of players' sobriety levels on their average match performance statistics
- Explored additional insights, such as identifying the most popular game modes, through data analysis and visualization
- Utilized Matplotlib to create visual representations of key statistics, showcasing variations across different video game modes

Interactive Portfolio Website | HTML, CSS, JavaScript, Apps script

- Developed an interactive portfolio website using HTML, CSS, JavaScript, and Google Apps Script to showcase completed projects
- Enhanced user experience by integrating smooth navigation features and interactive elements, ensuring an engaging and intuitive browsing experience

CERTIFICATIONS & HONORS

Renee Crown Honors Program, Syracuse University Catalyst Scholar, Syracuse University Free Code Camp Data Analysis Certification Global Seal Of Biliteracy (Spanish)

May 2025 - Present January 2025 - Present December 2024 June 2024