

Miguel Orellana Jr
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EDUCATION

The University of Chicago

Bachelor of Science in Computer Science and Bachelor of Arts in Cognitive Science

Archer High School

General Diploma

May, 2022

GPA: 4.0/4.45

Honors

AP Scholar with Honors/Distinction (2019-22), High Honor Role (2018-22), Honor Student (2022)

Chicago, IL
Expected, June 2026
Lawrenceville, GA

EXPERIENCE

APEX Lab

Programmer

Chicago, IL
June 2024 – September 2024

- Designed and developed an interactive 8-bit educational game to enhance auditory pitch recognition skills.
- Integrated the game with a backend server to collect and store user performance metrics, including high scores, accuracy, and time.
- Implemented real-time data handling and efficient communication between the game client and server to ensure smooth gameplay and accurate analytics tracking.
- Conducted experimental trials with users to evaluate the game's effectiveness in enhancing pitch recognition performance, analyzing the results to inform design iterations.

Systemic Diversity and Inclusion Group.

Intern

Gaithersburg, MD
April 2023-August 2023

- Collaborated in biweekly meetings to design and enhance course modules on racial and systemic diversity, updating existing materials with improved structural and design elements for greater impact.
- Programmed an interactive diversity training module using HTML and JavaScript, tailored for business clients seeking to integrate diversity and inclusion practices.
- Contributed to front-end development and content design, aligning the module's interface and functionality with client needs to promote educational engagement and accessibility.

Chase Bank

Shadow Program

Baltimore, MD
June 2022 – September 2022

- Shadowed a senior team member within the software department, gaining hands-on exposure to corporate software development practices and collaborative workflows.
- Developed insights into the role of team contribution, efficiency, and streamlined communication in maintaining productivity within a fast-paced tech environment.
- Observed and learned best practices in software troubleshooting, code quality assessment, and agile methodology applications, preparing for future roles in technical settings.

RELEVANT COURSEWORK

- Databases – Gained practical experience designing and interacting with databases using SQL. Built full-stack applications with database integration, focusing on CRUD operations and schema design. Implemented core database components and data structures in Rust to understand systems-level functionality.

SKILLS

Languages: Fluent in Spanish and English for both Reading, Speaking, and Writing

Computer: Proficient in Python, SQL, C, Rust, Javascript, SML, HTML, CSS, Linux, Word, experienced in Excel