

Hosanna Otchere

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EDUCATION

The Ohio State University

Bachelor of Science in Computer Engineering

Columbus, OH

Expected May 2027

Awards/Honors: Shepard Scholarship, Spring Foward Tuition Scholarship(2), Dean's List

Relevant Coursework: Programming Methodology, Differential Equations, Machine Learning and Data Science, Digital Logic, Discrete Structures (in progress), Discrete Mathematics

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, HTML, CSS, C++, Ruby

Software: Eclipse, Visual Studio, CSS, Git, Google Collaboratory

WORK EXPERIENCE

MasterCard

Incoming Full-stack Software Engineering Intern

St.Louis, MO

Jun 2025 – Aug 2025

The Ohio State University, College of Engineering

Undergraduate Teaching Assistant

Columbus, OH

Aug 2024 – Dec 2024

- Taught and supported over 70 students through tutorial sessions and office hours.
- Graded more than 80 assignments and exams per week, offering detailed and constructive feedback to enhance student learning.

University of Cincinnati, College of Engineering

Research Assistant

Cincinnati, OH

May 2023 – Aug 2023

- Addressed color histogram limitations in video shot detection using TvSum and SumMe data. Improved handling of soft transitions via Google Colab.
- Analyzed low precision-recall and F1 scores (avg 0.32) from detecting boundaries every 150 frames.
- Proposed an adaptive threshold approach, predicting 25% accuracy improvement.
- Presented data visually utilizing Python to compare algorithm performance and highlight weaknesses.

PROJECTS

AE SYNC - Adobe AfterEffects Subtitle Generator (JavaScript, Python, HTML, CSS)

- A plugin for Adobe After Effects that automatically transcribes audio and creates synced text layers for seamless subtitles or lyric videos.
- Implemented a Python backend to process and synchronize subtitle data with video timelines.
- Currently utilizing JavaScript to integrate the subtitle generator into After Effects, ensuring seamless user interaction.

Haptic FeedBack Speech Recognition System (C++, Arduino, Excel, Matlab)

- Engineered a device that detects speech rate and maps vibrations to haptic motors.
- Analyzed microphone data using Excel and MatLab to determine loudness thresholds for accurate speech detection. Implemented filtering techniques to remove background noise and improve system precision.
- Achieved 80-90% accuracy in detecting speech, leading to effective tactile feedback for enhanced user experience.

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow

Career Preparation Fellow

Washington, DC

Jan 2025 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Target

ColorStack (Ohio State) Chapter

Communications Chair

Columbus, OH

Aug 2023 – Present

- Led the club's marketing efforts by managing social media platforms, designing promotional materials and coordinating outreach to increase member engagement and event attendance.
- Increased member engagement and event attendance by 10% since becoming Communications Chair.

ADDITIONAL SKILLS AND INTERESTS

Familiar in Spanish, Interested in social innovation, and marketing.