

# Olusoji Oduneye Jr.

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## EDUCATION

### Northwestern University

Bachelor of Arts in Computer Science and Music, GPA: 3.67

Expected Jun. 2026

*Evanston, IL*

## EXPERIENCES

### Tangible Interaction Design & Learning Laboratory (TIDAL)

Jan. 2024 - Jun. 2024

Undergraduate Researcher

*Evanston, IL*

- Conducting research within the CS education program, systematically collecting and analyzing data from classroom interactions and student feedback to refine the curriculum and teaching methodologies, ensuring an effective and engaging learning experience for over 200 elementary students across the district.
- Delivering interactive and educational lessons to a class of 20 fifth graders, fostering a creative and supportive environment for learning coding and problem-solving skills.

### Curafitt

Jun. 2024 - Present

Software/Hardware Engineering Intern

*Evanston, IL*

- Led development and prototyping of a wearable sensor for ACL recovery, successfully integrating core functionalities to monitor key recovery metrics for athletes and physical therapists.
- Researched and selected suitable PCBs and Arduinos, translating high-level code into efficient system-level C code for seamless integration and performance optimization.
- Set to contribute to the development of a Swift-based mobile app, planning to incorporate three.js and React frameworks for real-time data visualization and user interaction.

### Complear

Jul. 2023 - Sep. 2023

Software Engineering Intern

*Remote*

- Developed a chatbot application using Python, LangChain, and Docker to process and analyze company data, automating key processes and improving the company's workflow and consumer experience.
- Leveraged company-provided data to train and fine-tune local large language models, enabling personalized dropdown box options for business partners.
- Researched the latest advancements in natural language processing, incorporating relevant techniques into large language model implementation.

### ColorStack at Northwestern University

May 2023 - Present

Co-founder

*Evanston, IL*

- Co-founded a chapter of ColorStack, an organization for Black and Latinx students aimed at providing a supportive community and resources for underrepresented minorities in Tech.
- Facilitating mentorship programs, technical workshops, and networking events with over 20 partners to promote the personal and professional development of club members.
- Providing academic and emotional support to 6 first-gen, low-income freshmen in Tech to aid their transition.

## PROJECTS

### To-Do List | Javascript, HTML, NextJS, MySQL, Docker

Dec. 2023

- Executed the creation of a comprehensive full-stack to-do list app integrating Docker for consistent environment configurations and deploying advanced security protocols, including cryptographic hashing and token-driven authentication, to fortify data security and streamline operational workflows.
- Focused on backend and frontend integration using domain-driven design for scalable code, implemented manual testing for product security, and established Unix permission configurations within the project framework to ensure system integrity and protect against unauthorized interventions.

### Northwestern Open Street Map | C++

Mar. 2023

- Developed a navigation system using OpenStreetMap data to navigate buildings on Northwestern's Campus.
- Improved functionality by incorporating Dijkstra's algorithm to obtain optimal routing.

## TECHNICAL SKILLS

**Languages:** C++, C, C#, Python, HTML/CSS, JavaScript, Swift, MySQL

**Developer Tools:** Vue, React, NextJS, Docker, Git, VS Code

**Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Cybersecurity Foundations, Computer Systems