Olusoji Oduneye Jr.

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EDUCATION

Northwestern University	Expected Jun. 2025
Bachelor of Arts in Computer Science and Music, GPA: 3.59	*Evanston, IL*

EXPERIENCES & PROJECTS

CS 306: Foundations of Cybersecurity | C, C++, JavaScript, HTML — Aug 2024 - Present
Teaching Assistant — *Evanston, IL*

- Guide students through **full-stack security practices**, covering key topics such as **threat modeling**, application security, **cryptography**, and **access control**, while emphasizing both technical and ethical decision-making.
- Provide hands-on support for **debugging** programming assignments with **breakpoints** and **GDB**, helping students apply fundamental security concepts to real-world applications, ensuring they understand **secure system design** from the ground up.

Google | Python, REST API, NodeJS — Sep. 2024 - Sep. 2024
Black CS Summit Fellow — *Chicago, IL*

- Chosen to join a cohort of **50+** students to develop tech solutions addressing community challenges in Chicago.
- Led **full-stack** development in a **hackathon** group of 6 students, securing **2nd place** out of **10+** groups by presenting both tech solution and business plans to **industry judges**.

Curafitt | C, Arduino, Swift, React, ThreeJS — Jun. 2024 - Sep. 2024
Software/Hardware Engineering Intern — *Evanston, IL*

- Prototyped a **wearable sensor** for **ACL recovery**, securing **$2,500** from investors by demoing core functionalities for athlete and physical therapist recovery metrics.
- Researched and selected suitable PCBs and Arduinos, **translating high-level code** into efficient **system-level C code** for seamless integration and performance optimization.
- Wireframed a **Swift**-based mobile app, outlining functionalities to integrate ThreeJS and **React** frameworks for real-time **data visualization** and interactive user experience.

Tangible Interaction Design & Learning Laboratory (TIDAL) — Jan. 2024 - Jun. 2024
Undergraduate Researcher — *Evanston, IL*

- **Researched** within the CS education program, collecting and analyzing classroom data and student feedback to refine curriculum and enhance learning for **200+** elementary **students district-wide**.
- Delivered interactive and educational lessons to a class of **20** fifth graders, fostering a creative and supportive environment for learning coding and **problem-solving skills.**

Complear | Python, LangChain, Docker — Jul. 2023 - Sep. 2023
Software Engineering Intern — *Remote*

- Developed a **chatbot application** 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**.

Block Music | Python, OpenCV, Tesseract OCR — May 2024

- Coded backend logic for an interactive tool enabling learners to create music by arranging puzzle pieces.
- Demoed to **100+** elementary and middle school students in Evanston, enhancing their understanding of **music composition** and **coding fundamentals** through hands-on learning.

Secured To-Do | Javascript, HTML, Express, NextJS, MySQL, Docker — Apr. 2024

- Created a **full-stack** to-do list app containerized for consistent environment configurations and deployed advanced security protocols, including **cryptographic hashing** and **token-driven authentication,** to fortify data security and streamline operational workflows.
- Utilized **domain-driven design** for **scalability**, implemented **unit tests** for product security, and established **Unix** permissions within the project framework to ensure system integrity and protect against unauthorized interventions.

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, OOP, Linear Algebra, Cybersecurity, Computer Systems