Olusoji Oduneye Jr.

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EDUCATION

Northwestern University   Anticipated June 2025
Bachelor of Arts in Computer Science and Music, Cum. GPA: 3.60   *Evanston, IL*

EXPERIENCE

Tangible Interaction Design & Learning Laboratory (TIDAL)   Jan. 2024 - Present
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.

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.

Bloomberg Accelerator Summer School Program   Jun. 2023 - Jul. 2023
Software Engineering Fellow   *Remote*
- Selected by Bloomberg Engineering from competitive applicants to complete software engineering courses.
- Actively engaged in specialized workshops on data structures & algorithms, problem-solving & patterns, and live coding sessions with Bloomberg Software Engineers to sharpen technical interview prowess.

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.

WildPad | *Javascript, OpenAI API*   Apr. 2023
- Worked on a hackathon team of 4 students to create a generative storybook web application.
- Utilized OpenAI and custom prompt templates to improve the generation of high-quality user-specific short stories.

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