Oluwole Fabikun

+1 857-236-0685 | Boston, MA | wole359@gmail.com | wolefabikun.com

Education

University of Massachusetts-Amherst, Amherst MA — Expected May ‘24
B.A. in Computer Science, Biology Minor

Related Courses: Algorithms, Data Structures, Advanced Computation, Database Management, Web Programming, Human-Comp Interaction, Data Forecasting, Computational Statistics
Extracurriculars: National Society of Black Engineers Academic Outreach Chair, ColorStack Member, HackUMass, UMass Brotherly Union, UMass Fashion Organization, Barber/Founder of Wole’s Cuts
Awards & Scholarships: Microsoft Power Platform Champion Award, National Science Foundation LSAMP Funding, Raymond D. Gozzi Scholarship, David Knapp Scholarship, John & Abigail Adams Scholarship, Class of 1971 Scholarship

Technical Skills

Languages: Python, Typescript, Java, SQL, HTML, CSS
Frameworks/Libraries: Express, NextJS, React, Node.js, Flask, Django, TailwindCSS, Qdrant, Pandas, OpenAI API
Tools: Git, Postgres, Postman, Firebase, Jupyter Notebook, Power BI, Figma

Experience

Software Engineer Co-op – Novy.ai — Jan ‘24 - Present

- Key contributor to the development of Paidleave.ai, a chatbot initiative in collaboration with MOMS F1RST and OpenAI, featured in Forbes for simplifying New York's intricate paid leave policies, with ongoing expansion to 8 additional states and D.C.
- Overhauled the **semantic search** mechanism using Qdrant, elevating the chatbot's understanding of natural language inquiries, which led to a marked uptick in the accuracy of search outcomes amidst intricate datasets
- Engineered scripts to aggregate and enhance database content, reinforcing the AI's response accuracy, and enhanced the chatbot with refined AI prompts for more accurate, personalized user interactions to support scaling the tool across multiple states

Software Developer – BUILD UMass — Aug ‘23 - Present

- Collaborating on a team of five to elevate the Amherst Ballet School website's functionality and user experience by leveraging **React**, **Django,** and **Firebase**, focusing on modernizing online presence and improving user engagement
- Applying **Agile methodologies** such as **Scrum** standups and sprints, effectively maneuvering through technical complexities, ensuring steady progress, and adherence to project timelines

Software/Data Research Intern – Laboratory for Advanced System Software — Sep ‘22 - Present

- Spearheading a **deep learning** research initiative focused on the implementation of **computer vision** techniques for over **90%** accuracy in identifying solar potential of roofs
- Utilizing **Python**, computer vision libraries, and satellite imagery data to develop and test models
- Creating custom solar energy generation applications with **Flask** to enhance data visualization, user interaction, and optimize research efficiency

Developer Intern – Nucor Skyline — Jun ‘23 - Aug ‘23

- Designed and implemented a secure **RESTful API** using **ASP.NET** core, enabling **JWT token**-based user authentication and authorization, while collaboration with team members to integrate the API into the project ecosystem
- Utilized **Salesforce Object API** in **Power BI** to optimize data retrieval and analysis processes for improved business insight efficiency and enable seamless integration between Salesforce and Power BI
- Developed a dynamic credit Dashboard in Power BI that enabled real-time visualization of quote data, leading to a **20%** improvement in sales analysis accuracy and empowering daily data-driven decision-making

Projects

Solar Energy Modeling Application — Sep ‘23 - Current

- Spearheading the development and publishing of a comprehensive full-stack application utilizing **Flask** and **Python**, powered by the **NSRDB API** to empower researchers by providing enhanced access to historical solar energy statistics
- Customizing application to allow users to adjust parameters such as intervals and attributes to access historical solar energy data
- Significantly improving the application's user-friendliness, ensuring accessibility for researchers across various expertise levels in solar performance modeling

Personal Portfolio Website — Aug ‘23

- Engineered a dynamic personal portfolio website using **React**, **Tailwind CSS**, and modern web development practices
- Leveraged server-side rendering (**SSR**) and markdown components (**MDX**) to ensure performance and SEO friendliness
- Created an intuitive and visually appealing user interface with a mobile-responsive design