Oluwole Fabikun

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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, 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: Flask, Django, React, TailwindCSS, Node.js, Matplotlib, Pandas
Tools: Git, PostgreSQL, Postman, Firebase, Jupyter Notebook, Power BI

Experience

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

Machine Learning Research Intern – Laboratory for Advanced System Software — Aug '23 - 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-ba**sed 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

Data Research Intern – Laboratory for Advanced System Software — Oct '22 - Jun '23
- Cooperated with ValleyBike Share to meticulously process CSV files, enabling statistical scrutiny of electric bike usage across western Massachusetts
- Employed **Python** and libraries such as **Pandas** and **Matplotlib** within **Jupyter Notebook** to analyze data and produce dynamic, insightful visualizations
- Demonstrated strong communication, understanding of findings, and problem-solving skills through visual presentation of research findings and contribution to group discussions

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