Oluwole Fabikun

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

Education

University of Massachusetts-Amherst, Amherst MA — Expected May 2024
B.A. in Computer Science, Biology Minor — **GPA: 3.21**
Related Courses: Database Management, Algorithms, Programming w/Data Structures, Reasoning Under Uncertainty, Introduction to Computation, Human-Comp Interaction, Programming Methodology
Extracurriculars: E-Board of National Society of Black Engineers, 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

Experience

Laboratory for Advanced System Software - *Machine Learning Research Intern* — Aug 2023 - Present
- Participating in research project applying computer vision techniques for rooftop detection in solar panel installations
- Utlizes Python, computer vision libraries, and satellite imagery data to develop and test models
- Demonstrates a strong learning curve in mastering new concepts in computer vision and their application

Nucor Skyline - *Developer Intern* — June 2023 - Aug 2023
- 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
- Designed and implements a secure RESTful API using ASP.NET Core, enabling JWT token-based user authentication and authorization, while collaborating with team members to integrate the API into the project ecosystem

Laboratory for Advanced System Software - *Data Research Intern* — Oct 2022 - June 2023
- Collaborated with ValleyBike Share to meticulously process extensive CSV files, enabling comprehensive statistical scrutiny of electric bike usage across western Massachusetts
- Employed Python programming language and libraries such as Pandas and Matplotlib within Jupyter Notebook to analyze data and produce dynamic and insightful visualizations
- Demonstrated strong communication and problem-solving skills through presentation of research findings and contribution to group discussions

Personal Projects

Solar Energy Modeling Application — Sep 2023 - Current
- Spearheading the development of a comprehensive full-stack application utilizing React and Python, powered by the NSRDB API
- Customizing the application to allow users to adjust parameters such as years, attributes, and interval 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 2023
- Designed and crafted a dynamic personal portfolio website using modern web development practices
- Leveraged server-side rendering (SSR) and markdown components (MDX) to ensure optimal performance and SEO friendliness
- Created an intuitive and visually appealing user interface with a mobile-responsive design

Technical Knowledge

Languages/Frameworks: Python, Java, SQL, Typescript, HTML, TailwindCSS, React, Node.js, Matplotlib, Pandas
Technologies: Git, PostgreSQL, Postman, Jupyter Notebook, Power BI