

# Oluwole Fabikun

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## Education

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University of Massachusetts-Amherst, Amherst MA

Expected May '24

B.A. in Computer Science, Biology Minor

**Related Courses:** Algorithms, Programming w/Data Structures, Advanced Computation, Database Management, Human-Comp Interaction, Historical Generation and Data Forecasting, Reasoning Under Uncertainty

**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

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**Languages/Frameworks:** Python, Java, SQL, Typescript, HTML, TailwindCSS, React, Node.js, Matplotlib, Pandas, Flask

**Technologies:** Git, PostgreSQL, Postman, Jupyter Notebook, Power BI

## Experience

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### **BUILD UMass** – *Software Developer*

Aug '23 - Present

- Collaborating with a diverse pro bono team on a high-impact project to renovate the website of the Amherst Ballet School, focusing on modernizing their online presence and improving user engagement
- Advising clients on product adoption, conducting regular meetings, and coordinating stand-ups for efficient project management
- Developing custom solutions to automate operations, improve efficiency, and ensure a seamless user experience

### **Laboratory for Advanced System Software** – *Machine Learning Research Intern*

Aug '23 - Present

- Participating in research project applying computer vision techniques for rooftop detection in solar panel installations
- Utilizing Python, computer vision libraries, and satellite imagery data to develop and test models
- Creating custom applications with Flask and Python to enhance data visualization and user interaction, optimizing project efficiency

### **Nucor Skyline** – *Developer Intern*

Jun '23 - Aug '23

- Designed and implements 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

### **Laboratory for Advanced System Software** – *Data Research Intern*

Oct '22 - Jun '23

- Cooperated with ValleyBike Share company 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

## Projects

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### **Solar Energy Modeling Application**

Sep '23 - Current

- Spearheading the development of a comprehensive full-stack application utilizing Flask and Python, powered by the NSRDB API to empower graduate-level researchers by providing enhanced access to historical solar energy statistics
- 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 '23

- Designed and crafted a dynamic personal portfolio website using 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