

Oluwole Fabikun

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Education

University of Massachusetts-Amherst, Amherst MA
B.A. in Computer Science, Biology Minor

Expected May '24

Related Courses: Algorithms, Data Structures, Advanced Computation, Database Management, Web Programming, Human-Comp Interaction, Data Forecasting, Computational Statistics

Leadership: National Society of Black Engineers Outreach Chair, Male Fashion Model Coordinator, Tutor, Substitute Teacher

Extracurriculars: ColorStack, HackUMass, UMass Brotherly Union, UMass Fashion Organization, Founder of Wole's Cuts

Technical Skills

Languages: Python, Typescript, Java, SQL, HTML, CSS

Frameworks/Libraries: Express, NextJS, React, Node.js, Flask, Django, TailwindCSS, Qdrant, OpenAI API

Tools: Git, Vercel, Postgres, Postman, Firebase, Figma, Railway

Experience

Software Engineer Co-op – Novy

Jan '24 - Present

- Key contributor to the development of Paidleave.ai, a chatbot initiative in collaboration with Moms First and OpenAI, featured in Forbes, Time Magazine, and Fortune 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 research initiative focused on the implementation of **computer vision** techniques for over **90%** accuracy in identifying solar potential of roofs
- 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

Green Thumb Drive (Plant Care Application)

Mar '24 - Current

- Developing a full-stack application using **Next.js**, **TypeScript**, **Flask**, and VideoDB to provide personalized plant care advice and video recommendations
- Implementing a Retrieval-Augmented Generation (**RAG**) pipeline using LlamaIndex to enable **semantic search** and retrieval of relevant video content based on user queries
- Utilizing **Bun**, a high-performance JavaScript runtime, to significantly improve application performance, reduce build times, and enhance the overall development experience

Personal Portfolio Website

Aug '23

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