

# Oluwole Fabikun

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## Education

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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

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**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

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**Software Engineer Co-op – Novy.ai** Jan '24 - Present

- Key contributor to the development of Paidleave.ai, a chatbot initiative in collaboration with Moms First 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 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

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**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