Oluwole Fabikun

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Education

University of Massachusetts-Amherst, Amherst MA   May '24
Bachelors in Computer Science, Biology Minor

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

Skills

Languages: Python, Typescript, Javascript, Java, SQL, HTML
Frameworks/Libraries: Pandas, Express, NextJS, React, Node.js, Flask, Django, TailwindCSS, Qdrant
Tools: MongoDB, Git, Vercel, AWS, Postgres, Firebase, Figma, Railway, Redis, Apache Spark

Experience

Software Engineer – Fidelity Investments   Jun '24 – Present
- Early career software/data engineer program

Software Developer (Contract) – Girls Who Code/OpenAI   Jun '24 – Present
Python, Typescript, NextJS, React, OpenAI, QDrant, Vercel, Railway, Redis
- Contracted independently by the collaboration between OpenAI and Moms First, with the support of Girls Who Code, to enhance Paidleave.ai, a groundbreaking generative AI chatbot designed to simplify the application process for Paid Family Leave benefits across various states
- Revamped the front-end by redesigning the homepage and improving the UI/UX, leading to an enhanced user experience and a more intuitive navigation system
- Solely developing Paidleave.ai v2, set to debut at the Clinton Global Initiative in September, highlighting its impact on increasing awareness and accessibility of paid family leave nationally

Software Engineer Co-op – Novy   Jan '24 – Jun '24
Python, Typescript, NextJS, React, OpenAI, QDrant, Vercel, Railway, Redis
- 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.
- Engineered an automated testing framework to assess, benchmark, and refine the chatbot's responses, contributing to a measurable enhancement in user experience while prioritizing ethical AI use and user trust
- Implemented a hybrid search mechanism to supplement the retrieval-augmented generation, combining semantic search with metadata filtering, elevating the chatbot's understanding of inquiries, causing a 25% increase in average F1 score for accuracy

Software Developer – BUILD UMass   Aug '23 – Jun '24
Python, Typescript, React, Django, Firebase, TailwindCSS
- Collaborating on a team of five to elevate the Amherst Ballet School website's functionality and user experience, focusing on modernizing online presence and improving user engagement
- Utilizing **Agile methodologies** such as **Scrum** standups and sprints, effectively maneuvering through technical complexities, ensuring steady progress, and adherence to project timelines

Projects

Content Vectorization Toolkit   May '24
- Developed an automated pipeline for downloading, cleaning, and segmenting web content, using **Python** scripts to process and prepare data for vector-based search, powered by **OpenAI** embeddings and **Qdrant**
- Optimized the toolkit for scalability and flexibility, making it an ideal solution for web scraping and search engine development, with a focus on modularity and efficient data processing

Green Thumb Drive (Plant Care Application)   Mar '24
- 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