Tiwalayo Oluwalade

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EDUCATION

Towson University — Towson, MD
Bachelor of Science in Computer Science — **Expected Graduation: May 2026**
Relevant Coursework: Data Structures and Algorithms, Software Engineering, Deep Learning

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, PowerShell
Frameworks: Next.js, Node.js, TailwindCSS, Material UI, Bootstrap
Developer Tools: Pinecone, JupyterNotebook, Git, Google Analytics, Figma, Visual Studio Code, Vercel

EXPERIENCE

Software Engineering Fellow — June 2024 – September 2024
Headstarter AI — **Remote**
- Built AI-powered **customer support app** using **Next.js** and **Llama 3.1**, improving response efficiency by **50%**
- Designed **3 full-stack apps** using custom **Figma wireframes**, **TailwindCSS** to build amazing user experience
- Developed **AI Flashcards app**, coding in **40+ files** with JavaScript, Material UI, using Stripe for SaaS payment
- Built full-stack **Pantry Tracker app** to improve grocery management using Firebase, earning **275+** unique visits

Software Engineering Fellow — July 2024 – September 2024
The Tech Cadets — **Remote**
- Built **5** frontend projects using **HTML/CSS**, **JavaScript**, using tools like Google Fonts to enhance user interface
- Revamped personal website with **500+ lines of code** using HTML/CSS, boosting user engagement by **100%**
- Mentored by Capital One engineers on deployment and scalability for effective **CI/CD** and project showcasing

Software Engineering Intern — June 2023 – August 2024
Christ Apostolic Church — **Baltimore, MD**
- Implemented audio-visual systems and software extensions to create an **autonomous workflow environment** and provide smooth multimedia production to **1,000+** church members
- Executed code snippets and shortcuts with **Java**, increasing **overall coding efficiency by 40%** in 5 projects
- Collaborated with Informational Technology team to fix complex bug using PowerShell command prompts

PROJECTS

Financial Literacy Chatbot | Personal Project | Github — July 2024 – September 2024
- Deployed full-stack web application with **Vercel AI SDK** and **OpenAI API** for end-to-end AI integration
- Designed vibrant user interface features with TypeScript, Next.js, and Material UI to **optimize user navigation**
- Implemented detailed system prompt to incorporate family-friendliness, increasing user engagement by **20%**

Rate My Professor AI | Team Project | Github — August 2024 – September 2024
- Developed an artificial intelligence **semantic-search RAG pipeline** that leverages a Python-built, AWS Pinecone database to create context-aware response using Llama 3.1 LLM
- Implemented 4 reusable, client-side JavaScript components from Figma wireframes, to create visual hierarchy
- Integrated Pinecone database for real-time JSON data retrieval, **reducing API call latency by 20%**

Gardening Assistant AI | Team Project | Github — August 2024 – September 2024
- Developed comprehensive plant management system that tracks plant type and quantity with NoSQL Firebase
- Implemented dynamic routing with Next.js to enable **button-based page transitions**, improving user flow efficiency and **reducing load times by 25%**

LEADERSHIP & ACTIVITIES

ColorStack: Fellow — September 2024 - Present
CodePath: Technical Interview Prep Fellow — September 2024 - Present
Software Engineering Club: Student Fellow — June 2024 - Present