Tiwalayo Oluwalade

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EDUCATION

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

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, PowerShell
Frameworks: Next.js, Node.js, LangChain, Express.js, Streamlit, TailwindCSS, Material UI, Chakra UI
Developer Tools: AWS, Pinecone, Hugging Face, MongoDB, Git, React Hot Toast, Axios, Zustand

EXPERIENCE

Software Engineering Fellow   June 2024 – September 2024
Headstarter   **Remote**
- Built AI-powered **customer support app** using **Next.js** and **GPT-4o**, 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%**
- Implemented Vercel CI/CD pipelines under Capital One engineers' mentorship, reducing deployment time by **22%**

Audio Visual Engineering Intern   June 2023 – August 2024
Christ Apostolic Church   **Baltimore, MD**
- Implemented audio-visual systems and software extensions via DaVinci Resolve to create an **autonomous workflow environment** and provide smooth multimedia production to **1,000+** church members
- Collaborated with team of 4 to build professional hardware **streaming pipeline**, increasing viewership by 200%
- Collaborated with IT team to debug streaming system issue via PowerShell prompts, cutting downtime by 2 hours

PROJECTS

Coursesight Course Reviews | Team Project   November 2024 – January 2025
- Developed **backend APIs** using Node.js to handle authentication, video uploads, and course review submissions, integrating MongoDB database and Amazon S3 for storing and managing course and video content
- Implemented **video storage system** using **Amazon S3** with pre-signed URLS, ensuring efficient video retrieval and playback

MERN Product App | Personal Project | Github   December 2024 – January 2025
- Engineered scalable CRUD API using Mongoose, Node.js, and Express, reducing data retrieval latency by 30%
- Implemented global state management with **Zustand** to efficiently handle data, improving performance by **30%**
- Built dynamic user interface with Chakra UI with real-time notifications using **React Hot Toast**, increasing user satisfaction by 20%

AI Codebase RAG | Team Project | Github   November 2024 – November 2024
- Built AI-powered code search tool using RAG, indexing over **10,000 lines of code** from multiple repositories with Pinecone, achieving query response times under 500ms
- Improved embedding system with **Hugging Face** and **LangChain** to increase vector embedding quality by 36%
- Developed interactive chat functionality using Streamlit, allowing users to inquire about codebases **3 times faster**

LEADERSHIP & ACTIVITIES

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