

Itwela Ibomu

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EDUCATION

Western Governors University (WGU)

Salt Lake City, UT

Bachelor of Science in Software Engineering

Estimated Graduation: Expected December 2025

- Relevant coursework: Mathematics, Programming, Data Management, Application Design.
- Gained practical experience in software architecture, databases, and full-stack development through project-based learning.

EXPERIENCE

Headstarter

Long Island City, NY

Software Engineering Fellow

Jul 2024 - Sep 2024

- Built and deployed 5 AI-powered web applications using React (TypeScript), Next.js, Tailwind CSS, Firebase, Supabase, Clerk, LangChain, Pinecone, Docker, and Vercel.
- Scaled multiple web apps to 200+ users by iterating on user feedback, improving UX, and optimizing performance.
- Led development of 'CitySwipe'—an AI travel/vacation planning platform—securing funding and winning multiple hackathons.

Dataforce

Atlanta, GA

AI Software Engineer

Apr 2024 - Jun 2024

- Improved captioning project efficiency and productivity by 20% through workflow optimization and automation.
- Resolved technical issues and documented fixes, reducing cycle time and improving on-time delivery for client projects.
- Supported client satisfaction by consistently exceeding captioning targets and quality benchmarks.

Forage (J.P. Morgan virtual experience)

Remote

Software Engineering Virtual Experience

Dec 2023 - Jan 2024

- Set up development environment and implemented live graph generation using JPMorgan Chase's open-source Perspective library.
- Diagnosed and fixed code issues to complete assigned tasks and demonstrate working data-visualization features.

PROJECTS

CitySwipe (AI Travel & Vacation Planning)

Jul 2024 - Present

AI-powered vacation planning platform that recommends itineraries and bookings based on user preferences.

Technologies Used: Next.js, React, Vercel, Supabase, Gemini

- Led a small team to build and launch the product; grew to 50+ active users and generated thousands of social impressions.
- Secured investment from Nabeel (CEO of Lunchbox) after pitching CitySwipe's growth metrics and roadmap.

Job Tracker & Data Analysis Application

Jan 2024 - Apr 2024

Tool to track job applications and analyze pipeline metrics to reduce application time.

Technologies Used: Next.js, TypeScript, PostgreSQL

- Reduced average job application time by 50% via automation and streamlined tracking features.

RAG AI Rate My Professor Chat Application

Aug 2024

Real-time chat interface using retrieval-augmented generation (RAG) for professor reviews and ratings.

Technologies Used: Next.js, TypeScript, Pinecone, OpenAI

- Built real-time data fetching and vector search to improve answer accuracy and user experience.

Job search assistant and personal dashboard for tracking applications and tips.

Technologies Used: Next.js, React, OpenAI, PostgreSQL

- Launched MVP with 10+ users; integrated AI-driven assistance to provide tailored job-hunting suggestions.

Instant Video Caption Generator (Jelly Up!)

Aug 2024

Backend system for automated video transcription and caption embedding.

Technologies Used: Next.js, React, Docker, OpenCV, OpenAI Whisper

- Developed transcription pipeline and captioning system to generate accurate captioned videos.
- Placed 2nd in the Headstarter Hiring Hackathon among hundreds of teams.

Globetrotter AI (Voice-Activated Travel Assistant)

Aug 2024

Voice-activated AI assistant that integrates travel APIs to provide personalized trip recommendations.

Technologies Used: Flask, REST APIs, OpenAI

- Designed full-stack solution with voice input, API orchestration, and contextual responses.
- Won 1st place in the Headstarter Hiring Hackathon.

SKILLS

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| Technical: | Python, JavaScript (TypeScript), React, Next.js, Node.js, React Native, PostgreSQL, Supabase, Firebase, Docker, OpenAI / LLMs, Pinecone, LangChain, OpenCV |
| Additional: | UI/UX Design, Leadership, Agile, Team Collaboration, Problem Solving, Mentoring |

ADDITIONAL INFORMATION

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| Interests: | Mentoring, Investing, Crypto, Basketball, Gaming, Traveling, Teaching |
| Hobbies: | Piano, Guitar, Digital Art |
| Languages: | English |