

Itwela Ibomu

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EDUCATION

Western Governors University (WGU)

Bachelor of Science in Software Engineering

Salt Lake City, UT

Estimated Graduation: Expected Dec 2025

- Relevant coursework: Data Structures & Algorithms, Database Management, Software Design & Architecture, Machine Learning Foundations.
- Developed strong foundations in mathematics, programming, data management, and application design.

EXPERIENCE

Headstarter

Software Engineering Fellow

Long Island City, NY

Jul 2024 - Sep 2024

- Built and deployed 5 AI-driven web applications using React (TypeScript), Next.js, Tailwind, Firebase, Supabase, Clerk, LangChain, Pinecone, Docker, and Vercel.
- Scaled multiple web apps to 200+ active users by iterating on user feedback and improving performance and UX.
- Led the development of 'CitySwipe' which secured early investment interest and won multiple hackathons.

Dataforce

AI Software Engineer

Atlanta, GA

Apr 2024 - Jun 2024

- Improved captioning pipeline efficiency by 20% through workflow optimization and automation, increasing throughput and client satisfaction.
- Diagnosed and fixed recurring technical issues in production, reducing error rates and accelerating delivery timelines.
- Collaborated with cross-functional teams to refine requirements and ensure high-quality deliverables.

Forage (J.P. Morgan Virtual Experience)

Software Engineering Virtual Intern

Remote

Dec 2023 - Jan 2024

- Set up development environment and implemented live graph generation using JPMorgan Chase's open-source Perspective library.
- Completed assigned tasks on time and demonstrated the ability to work with financial-data visualization tooling.

PROJECTS

CitySwipe (AI Travel & Vacation Planning)

Jul 2024 - Present

AI-powered vacation planning platform that recommends destinations, itineraries, and booking options using LLMs and vector search.

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

- Led product and engineering efforts; grew user base to 50+ active users and achieved thousands of social impressions.
- Secured early investment interest through strategic pitching and demonstrated product-market fit.

Job Tracker & Data Analysis Application

Jan 2024 - Apr 2024

Productivity tool to track job applications, automate workflows, and analyze application success metrics.

Technologies Used: Next.js, React, Node.js, PostgreSQL, Supabase

- Reduced average job application completion time by 50% using automation and streamlined UI.
- Implemented reporting dashboards to monitor application progress and outcomes.

RAG 'Rate My Professor' Chat Application

Aug 2024

Retrieval-Augmented Generation chat app that provides real-time professor ratings and reviews with vector search.

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

- Built real-time data fetching and vector search to improve accuracy and responsiveness of user queries.

MyJobKompass.com

Career planning and job application assistance web app with AI features for resume and job matching.

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

- Deployed a lightweight web app used by 10+ early users to test job-matching and tracking features.

Instant Video Caption Generator (Jelly Up!)

Aug 2024

Automated video captioning system using OpenAI Whisper and OpenCV to produce accurate subtitles.

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

- Developed backend processing pipeline for video transcription and caption embedding; judged 2nd place at Headstarter Hiring Hackathon.

Globetrotter AI (Voice-Activated Travel Assistant)

Aug 2024

Voice-activated AI assistant for travel planning integrating multiple travel APIs and voice recognition.

Technologies Used: Flask, Python, REST APIs, OpenAI

- Designed and implemented full-stack solution; won 1st place at Headstarter Hiring Hackathon for innovation and execution.

Lotus (React Native mobile app)

Mobile app that generates multimedia articles (text, images, audio) by orchestrating AI services; includes step-tracker, guided meditations, music library, and hydration reminders.

Technologies Used: React Native, Replicate, JavaScript, Audio generation

- Built multi-step generation pipeline with parallel calls to text, image, and audio models; bundled outputs into a mobile-friendly article library.
- Implemented offline caching, background audio playback, and additional wellness features; released to the iOS App Store (release date to be provided).

SKILLS

Technical:	Python, JavaScript, TypeScript, React, Next.js, React Native, Node.js, PostgreSQL, Supabase, Firebase, Docker, Pinecone, LangChain, OpenAI, OpenCV, Replicate
Additional:	UI/UX Design, Leadership, Teamwork, Agile methodologies, Product Development, Mentoring

ADDITIONAL INFORMATION

Interests: Mentoring, Investing, Crypto, Basketball, Gaming, Traveling

Hobbies: Teaching Piano, Guitar, Digital art

Languages: English (Native)

References: Available upon request