

# Itwela Ibomu

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## EDUCATION

### Western Governors University (WGU)

Salt Lake City, UT

*Bachelor of Science in Software Engineering*

*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

Long Island City, NY

*Software Engineering Fellow*

*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

Atlanta, GA

*AI Software Engineer*

*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)

Remote

*Software Engineering Virtual Intern*

*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