

Itwela Ibomu

Iibomu@wgu.edu |
Salt Lake City, UT, USA |
github.com/itwela | itwela.dev

EDUCATION

Western Governors University (WGU)

Salt Lake City, UT

Bachelor of Science in Software Engineering

Estimated Graduation: Expected Dec 2025

- Relevant coursework: Mathematics, Programming, Data Management, Application Design.
- Maintained strong academic performance across core engineering courses.

EXPERIENCE

Headstarter

Long Island City, NY

Software Engineering Fellow

Jul 2024 – Sep 2024

- Built and deployed 5 full-stack AI web applications using React (TypeScript), Next.js, Tailwind, Firebase, Supabase, Clerk, LangChain, Pinecone, Docker, and Vercel.
- Scaled multiple web apps to 200+ users by iterating on product feedback, improving performance, and refining UX.
- Won two hackathons (including CitySwipe) and secured follow-on interest/funding by demonstrating product-market fit and growth potential.

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 multiple production issues, reducing turnaround time and improving delivery reliability.
- Documented technical processes and implemented best practices to standardize caption production across projects.

Forage (J.P. Morgan virtual experience)

Remote

Software Engineering Virtual Experience

Dec 2023 – Jan 2024

- Implemented live graph generation using JPMorgan Chase's open-source Perspective library; configured dev environment and resolved integration issues.
- Completed assigned engineering tasks ahead of schedule and validated outputs against provided datasets.

PROJECTS

CitySwipe (AI Travel & Vacation Planning)

Jul 2024 – Present

AI-powered vacation planning web app that recommends trip itineraries and bookings.

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

- Led development and product strategy; grew the platform to 50+ users and generated thousands of social impressions.
- Secured investment interest from external stakeholders by pitching product growth and monetization plans.

Job Tracker & Data Analysis

Jan 2024 – Apr 2024

Job application tracker with automation and analytics to shorten application time.

Technologies Used: Next.js, TypeScript, PostgreSQL

- Reduced average job application time by 50% by building automation and streamlined UI for tracking applications.

RAG Rate My Professor Chat (MyJobKompass.com)

Aug 2024

Retrieval-Augmented Generation chat app with real-time data fetching and vector search.

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

- Implemented vector search and real-time data sync to improve response accuracy and user experience; served 10+ users.

Jelly Up! — Instant Video Caption Generator
Backend-driven video transcription and captioning system.

Aug 2024

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

- Built a scalable pipeline for automated video captioning; achieved high transcription accuracy and productionized captioned videos.
- Placed 2nd at the Headstarter Hiring Hackathon among hundreds of teams.

Globetrotter AI — Voice-Activated Travel Assistant
Voice-first travel assistant integrating multiple travel APIs.

Aug 2024

Technologies Used: Flask, APIs

- Designed full-stack voice assistant and integrated third-party APIs; project won 1st place at a Headstarter Hiring Hackathon.

SKILLS

Technical:	Languages: Python, JavaScript/TypeScript, Frameworks: React, Next.js, React Native, Flask, Databases: PostgreSQL, Supabase, Firebase, Tools: Docker, Vercel, Clerk, OpenAI, LangChain, Pinecone, OpenAI Whisper, Other: OpenCV, Git, CI/CD
Additional:	UI/UX Design, Leadership, Agile methodologies, Mentoring & Teaching, Teamwork

ADDITIONAL INFORMATION

Interests:	Mentoring, Investing, Crypto, Basketball, Gaming, Traveling, Teaching
Hobbies:	Piano, Guitar, Art
Languages:	English (native)
References:	Available upon request