

# Itwela Ibomu

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## EDUCATION

### Western Governors University (WGU)

*Bachelor of Science in Software Engineering*

Salt Lake City, UT

*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

*Software Engineering Fellow*

Long Island City, NY

*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

*AI Software Engineer*

Atlanta, GA

*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)

*Software Engineering Virtual Experience*

Remote

*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.

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**SKILLS**

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

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**ADDITIONAL INFORMATION**

<b>Interests:</b>	Mentoring, Investing, Crypto, Basketball, Gaming, Traveling, Teaching
<b>Hobbies:</b>	Piano, Guitar, Digital Art
<b>Languages:</b>	English