

# 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

### Dope Marketing

Minnesota

*Software Engineer*

*Jul 2025 - Present*

- Built an end-to-end AI Agent platform using React, Next.js, Ruby on Rails, TypeScript, OpenAI Agent SDK, Pinecone, and RAG services to assist account management workflows.
- Implemented secure user authentication, session management, and conversational interfaces enabling account teams to log in, hold conversations, and access a centralized knowledge base.
- Designed and maintained a production knowledge base pipeline: transcribed and processed call recordings (Fathom) into searchable embeddings, cleaned and transformed noisy transcription data, and indexed vectors in Pinecone for retrieval.
- Developed custom tools and connectors so agents could call internal APIs and third-party services (calendar, CRM, docs) to surface relevant, real-time information to users.
- Collaborated directly with the company owner and account teams; ran demos, collected feedback, and iterated on product features through weekly sprints to improve accuracy and adoption.

### 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 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 ability to work with financial-data visualization tooling.

## PROJECTS

### Lotus (Voice & Multimedia Article App)

Released Sep 18, 2025

React Native mobile app that generates multimedia articles (text, images, audio) by orchestrating multiple AI services. Includes step tracker, guided meditation, music library, and hydration reminders.

Technologies Used: React Native, Replicate, React, Audio generation, Background audio, Offline caching

- Built a multi-step generation pipeline that makes parallel calls to text, image, and audio generation models, post-processes results, and bundles them into a mobile article library.
- Implemented audio playback, offline caching, a step tracker, guided meditations, a music library, and water reminder features.
- Managed App Store submission and release process (App Store release: Sep 18, 2025).

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.

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.

## SKILLS

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

## ADDITIONAL INFORMATION

Interests:	Mentoring, Investing, Crypto, Basketball, Gaming, Traveling, Teaching Piano, Guitar, Digital art
Languages:	English (Native)
References:	Available upon request