

Itwela Ibomu

citwela@gmail.com | [Github.com/itwela](https://github.com/itwela) |

EDUCATION

WGU

Bachelor of Science in Software Engineering in Software Engineering

– December 2025

- Studies focus on Math, Programming, Data Management, Application Design and Development, Cloud Foundations

EXPERIENCE

Headstarter

Long Island City, NY

Software Engineering Fellow

July 2024 - September 2024

- Built and deployed five AI projects focused on user-centered development and optimization, using React TS, Next.js, Tailwind, Firebase, Supabase, Clerk, LangChain, Pinecone, Docker, and Vercel
- Scaled web applications to over 200 users through collaboration with UI/UX designers, optimizing user interfaces based on feedback and quality testing across deployment stages
- Enhanced SDLC processes, including code reviews and QA testing, to ensure high performance and reliability
- Impact: Achieved funding and support for "CitySwipe" by winning multiple hackathons, leading to its launch with 100+ users

Dataforce

Atlanta, GA

AI Software Engineer

April 2024 - June 2024

- Meet and exceed client captioning targets on a daily and weekly basis, resulting in improved client satisfaction and increased project efficiency
- Documented and notified development team of technical errors, bugs, contributing to the timely resolution of issues
- Created a spreadsheet to track personal productivity, resulting in 50% increase in captions per day

Forage (J.P Morgan)

Software Engineering Virtual Experience

December 2023 - January 2024

- Developed live graph generation functionality using JPMorgan's open-source library, Perspective, and gained exposure to financial data visualization and agile methodologies

Freelance

Atlanta, GA

Software Engineer

December 2023 - Present

- Develop and build dynamic UI to support multiple businesses in an Agile environment using web frameworks like React and Nextjs and mobile frameworks such as React Native and Expo Go
- Design, develop, and code web and mobile components for multiple clients, including debugging, diagnosing root causes, & identifying solutions
- Develop blockchain-based crypto games utilizing Solana, Web3.js, Rust and Anchor

PROJECTS

AI Travel & Vacation Planning Application

July 2024 - Present

Led a team of developers, designers, and marketers to create an AI-powered platform for vacation planning

Technologies Used: Next.js, React, Vercel, Supabase, Gemini, Framer Motion, Pexels API

- Led a team of developers, designers, and marketers to create an AI-powered platform for vacation planning, leveraging machine learning for personalized recommendations
- Integrated natural language processing (NLP) to improve user interaction with travel suggestions based on preferences
- Impact: Garnered thousands of social media impressions, secured investment from the CEO of Lunchbox, and grew user engagement by 150%

Job Tracker & Data Analysis Application

January 2024 - April 2024

Developed a job application tracking tool that automated the data entry and analysis

Technologies Used: Next.js, TypeScript, React, Supabase, Tailwind CSS, Vercel, Chart.js, React Query, Prisma, PostgreSQL

- Developed a job application tracking tool that automated the data entry and analysis of job applications, reducing job search time by 50%
- Collaborated with users to refine features based on feedback, conducting iterative testing to improve UI and functionality
- I landed my first contract role in tech (Dataforce), and the Software engineering fellowship (Headstarter) role using this tool

RAG AI Rate My Professor Chat Application
Designed and implemented an AI-powered web application for professor reviews using vector search and real-time data processing

Technologies Used: Next.js, TypeScript, React, Vercel, Pinecone, OpenAI, Langchain, Framer Motion

- Designed a web app utilizing real-time data and vector search, delivering accurate and up-to-date responses
- Emphasized ML model fine-tuning to maintain high levels of data relevance

Instant Video Caption Generator (Jelly Up!) August 2024
Built a backend AI system for video captioning using OpenAI Whisper

Technologies Used: Next.js, TypeScript, React, Vercel, Docker, OpenCV, OpenAI (Whisper), Supabase

- Built a backend AI system for video captioning, achieving high transcription accuracy using OpenAI Whisper
- Impact: Won 2nd place at the Headstarter Hiring Hackathon among hundreds of teams, demonstrating excellence in real-time caption generation for diverse media

Voice Activated AI Travel Assistant (Globetrotter AI) August 2024
Developed an AI-powered voice assistant for personalized travel recommendations

Technologies Used: Next.js, React, Vercel, Gemini, Google TTS, React Three Fiber, Framer Motion

- Designed a conversational AI travel assistant using Flask, integrating multiple travel APIs for seamless itinerary planning
- Impact: Won 1st place at the Headstarter Hiring Hackathon, recognized for innovation and utility in travel assistance

SKILLS

Technical Skills	Python, React, React Native, SQL
Additional Skills	UI/UX Design, Leadership, Teamwork, Agile, Artist, Musician (Piano, Guitar)

ADDITIONAL INFORMATION

Interests	Mentoring, Investing, Crypto, Basketball, Gaming, Traveling, Teaching, Machine Learning
Hobbies	Photography, Music Production, Rock Climbing, Chess
Languages	English (Native), Spanish (Conversational), Mandarin (Basic)
References	Available upon request