Itwela Ibomu

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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: Nextjs, 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: Nextjs, 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: Nextjs, 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)