

IDARA PATRICK ESSIEN

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SUMMARY

I am a software engineering student with hands-on experience in Data Science, SQL, and Python programming for creating AI applications. I have strong Python, SQL, and data analysis skills and a solid understanding of data structures, algorithms, and basic frontend web technologies. I am actively seeking internship opportunities where I can apply my skills and passion for building intelligent systems to drive innovation in AI.

EDUCATION

African Leadership University

Kigali, Rwanda

B.sc(Honours) Software Engineering, GPA: 4.35/ 5.0

August 2026

Relevant Coursework: Data Structures and Algorithms, Python Programming, SQL Queries, Linux operating system, Git and Github, Shell scripting, Enterprise Web development, Web Infrastructures.

TECHNICAL SKILLS

- **Programming:** Python, SQL, HTML5, CSS4
- **Libraries and Frameworks:** Pytorch, Flask, Numpy, Pandas, Matplotlib, Seaborn, Bootstrap, REST APIs
- **Design:** Canva
- **Other Tools:** Streamlit, Linux, Git, Github, Shell Scripting

PROJECTS

Real Time Voice Bot(in progress) → [\[Link\]](#)

- Real-time voice bot that gets a user's speech as input, processes it into a text, generates a response, and returns the response as a speech to the user in real-time.
- The project incorporates Google's Speech-to-Text API for converting the user's speech to text, OpenAI's API for generating a response, and ElevenLabs API for converting the response to speech

Exploring NYU City Public School Test Scores → [\[Link\]](#)

- Conducted an exploratory data analysis on high school students' SAT performance across New York City boroughs, utilizing Pandas and Numpy for data manipulation and Matplotlib for visualizations.
- Strengthened expertise in data analysis and visualization by identifying performance trends and generating insights to support decision-making.

Sentiment Analysis With Watson NLP → [\[Link\]](#)

- Developed a web application to perform sentiment analysis on user input and detect emotions using the IBM Watson NLP library, then packaged and deployed it with Flask for a functional user interface.
- Implemented unit tests and error handling to improve reliability, maintainability, and overall application performance.

CERTIFICATIONS

- Udacity AI Programming with Python
- IBM Data Science Orientation

LEADERSHIP EXPERIENCE

Chainindustry CO.

Uyo, Nigeria

Community Moderator

October 2021 - June 2022

- Moderated Chainindustry's online communities on Discord and Telegram, facilitated the onboarding process for new members, provided technical support, and resolved issues through ticketing systems.
- Managed conflicts and escalated critical feedback to the management team, contributing to improved community policies and member satisfaction.

VOLUNTEERING AND EXTRACURRICULARS

Outreach coordinator, Nexo Girls

June 2024 - Present

I serve as the Outreach Coordinator for the non-profit organization Nexo Girls, where I promote digital literacy among young girls. My role involves expanding the organization's reach and ensuring that essential digital skills are accessible to our target audience. Nexo Girls has positively impacted over 2,500 individuals to date.

OTHER SKILLS/INTERESTS

Community Building | Excellent Communication | Creative Writing | Team-oriented | Technical Writing