

# Modupe Akanni

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## EXPERIENCE

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### Full Stack Intern

July 2024 – August 2024

*HNG*

*Remote*

- Led backend development team as a code reviewer, maintaining high code quality standards and consistent pull request processes.
- Engineered an AI-powered podcast summarization tool using OpenAI's Whisper model and LangChain, enabling both file upload and URL-based summarization.
- Integrated real-time chat and notification systems using Centrifuge, enhancing user engagement across multiple platforms including Slack.

### LLM Intern

June 2024 – August 2024

*Seqhub Analytics*

*Connecticut*

- Developed a high-performance unittest bot using advanced prompt engineering techniques, achieving 99% code coverage and significantly improving the efficiency of the testing process.
- Collaborated with a cross-functional team to design and implement an LLM-powered chatbot for sickle cell patients, leveraging Retrieval Augmented Generation (RAG) and LangChain to provide accurate, safe, and personalized health information.
- Gained extensive hands-on experience with cutting-edge AI technologies, including Generative AI, Large Language Models, proprietary APIs, function calling, and prompt engineering, contributing to multiple projects that enhanced user engagement and satisfaction.

### Software Engineer

October 2023 – February 2024

*SkyeStudio*

*Remote*

- Increased backend efficiency by 22% through optimized Node.js API requests, reducing average request time by 5 seconds.
- Engineered and optimized Database models and APIs with rigorous data validation, ensuring data integrity and streamlining backend processes; reduced data discrepancies by 40% and improved API response times by 25%
- Transformed video editor functionality by implementing interactive features like color addition and shape integration, providing diverse creative options for users

## EDUCATION

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### Kibo School of Technology

New York, NY

*Bachelor of Science in Computer Science*

## PROJECTS

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### Artful | *Python, Flask, React, PostgreSQL*

- Integrated a full-stack web application using with Flask serving a REST API with HTML/CSS as the frontend
- Implemented Authentication using bcrypt to encrypt and decrypt users passwords
- Used Stripe for payment and Redis for caching user token

### Nodejs Chatbot | *Nodejs, OpenAI API*

- Developed an interactive Node.js chat assistant bot utilizing the OpenAI API, empowering developers to ask questions and receive relevant information directly within their terminal.
- Implemented conversation history and context-aware responses, enabling the bot to understand and respond effectively to follow-up questions based on previous interactions.
- Enhanced user experience through visual appeal, incorporating color differentiation between user prompts and chatbot responses for improved readability and engagement.

## TECHNICAL SKILLS

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**Programming Languages:** Python, JavaScript, Typescript, C

**Frameworks:** React.js, Express, Node.js, Flask, FastAPI, Next.js, Vue.js

**Others:** Git, Amazon Web Services (AWS), SQL, Firebase, Supabase, PostgreSQL, MongoDB, Data Structures