

# Mitchell Ogbo

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## EDUCATION

### B.S. SOFTWARE ENGINEERING | SEPTEMBER 2023 – PRESENT

- Near East University | Lefkosa, Cyprus

### HIGH SCHOOL DIPLOMA | SEPTEMBER 2017 – JULY 2022

- St. Gregory's College | Lagos, Nigeria

## TECHINICAL SKILLS

### LANGUAGES/TOOLS/Frameworks/CONCEPTS

- Python, SQLite, Git, Selenium, BeautifulSoup
- Flask, Pandas, Plotly

## PROFESSIONAL EXPERIENCE

### HACKATHON PARTICIPANT | DOVEC VENTURES | APR 2024

- Developed PlanSmith at the Construct AI Hackathon, an AI-driven extension that significantly enhanced a Limited Language Model's capabilities in construction management. Collaborated with developers using JavaScript and various tools, resulting in a tool that streamlines architectural floor plan generation, global living and utility cost estimation, and production cost calculation. Successfully integrated PlanSmith within a tight timeframe, enabling the LLM to efficiently handle complex tasks. Key contributions included architecting a multi-module application, creating a comprehensive testing library that improved testing efficiency across multiple teams, enabling real-time data retrieval, and building a robust testing framework.

## PERSONAL PROJECTS

### MUSIC TIME MACHINE

- Developed a Python-based application that creates Spotify playlists based on historical Billboard Hot 100 charts for a user-specified date.
- Integrated BeautifulSoup for web scraping, Spotipy library for Spotify Web API interaction, and OAuth2 for user authentication.
- Implemented features such as user input handling, data extraction from the Billboard website, song search on Spotify, and playlist creation with the top songs for the given date.

### BLOG WEBPAGE

- Developed a blog website using Flask, a Python web framework, with features such as user registration, login, and password hashing for enhanced security.
- Implemented SQLAlchemy ORM to manage the database, WTF-Forms for form handling, and Flask-Werkzeug for password hashing and user authentication.
- Designed a user-friendly interface for creating, displaying, and managing blog posts, as well as a comment section for user engagement.

### STOCK ALERTS APP

- Created an application that tracks stock prices and sends personalized alerts to users when there are significant changes in stock values, focusing on companies like Tesla Inc.
- Integrated requests library for API calls, datetime module for date manipulation, and Twilio SDK for sending SMS messages.
- Implemented features such as fetching historical stock data, calculating price differences, and filtering relevant news articles to provide users with essential information and updates on their chosen stocks.

### LEGO DATA ANALYSIS

- Investigated a comprehensive dataset on LEGO to uncover trends and insights about the company's history, product offerings, and most popular themes.
- Utilized pandas for data manipulation, matplotlib for data visualization, and HTML for data presentation.
- Analyzed various aspects of LEGO sets, including the number of parts, themes, and licensed franchises, to understand the company's strategy and evolution over time.