

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, Matplotlib

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.