Ibeagha Bethel Emmanuel

Software Developer

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EDUCATION

Harvard University   **Cambridge Massachusetts**

HarvardX (CS50) Online   *Completed, May 2024*

- o **CS50T:** *Understanding technology*
- o **CS50x:** *Introduction to Computer Science*
- o **CS50P:** *Introduction to Programming with Python*
- o **CS50AI:** *Introduction to Artificial Intelligence with Python (In progress)*
- o **CS50W:** *Web Programming with python and JavaScript (In progress)*

Related Coursework(Completed): C (Data Structures & Algorithms, Memory), Python(Objects-Oriented Programming, Regular Expressions, Unit Testing and Flask), HTML, CSS, JavaScript, SQL, Neural Networks, CyberSecurity.

Certificates: CS50x, CS50P, CS50T, IELTS Academic C1 level.

EXPERIENCE

TT Consulting Services Ltd   **Birmingham, UK**

Backend and Automation Developer   *Dec 2023 –September 2024*

- Developed and maintained backend APIs using Flask and FastAPI for AI-driven automation projects, improving system efficiency by 15%.
- Designed and implemented the "Vigilia" script to automate embassy appointment booking, linked to a Google Form for clients to submit their information, reducing manual effort by 70% and increasing booking success rates.
- Created a script to automate the downloading of Google Form responses using gdown, dynamically generating and naming folders for each client, downloading their uploaded files into the correct folders, and organizing their information in CSV files.
- Ensured secure API integration with external services, handling user authentication and data encryption to maintain high data security standards.

HI-TECH SS&P   **Benue, Nigeria**

Mobile Device Repair Technician   *May 2020 – June 2021*

- Diagnosed and repaired mobile devices by troubleshooting hardware and software issues, achieving a 95% customer satisfaction rate.
- Streamlined repair processes by implementing standardized diagnostic procedures, reducing average repair time by 20%.
- Managed inventory and parts ordering, ensuring timely availability of necessary components and maintaining a 98% on-time repair rate.

PROJECTS

Maple Match   **Enugu, Nigeria**

Capstone Project (CS50X)   *April 2024*

- Developed a Flask-based web application to streamline job searches for foreign workers seeking LMIA-approved positions, featuring a robust SQLite database with extensive job listings (over 18000) and user authentication.
- Implemented dynamic search functionality allowing users to filter and save job listings, enhancing user experience with a user-friendly interface using HTML, CSS, and JavaScript.
- Handled secure session management and integrated error handling, ensuring reliable and efficient user interactions, and secure login.

Vigilia (TT Consulting Services Ltd)   **Birmingham, UK**

Backend Developer   *Jun 2019 – Aug 2019*

- Developed an automated script to streamline the search and selection of embassy legalization appointments, reducing manual booking time and improving user efficiency.
- Utilized Python and Selenium to automate the interaction with embassy portals, enabling real-time monitoring and reservation of available appointments.
- Implemented user notification features to alert clients about successfully secured appointments and send their notification slip via email

Clip Vault   **Enugu, Nigeria**
Capstone Project (CS50P)   *May 2024*
- Built a lightweight cross-platform clipboard history manager using python and Tkinter, enabling efficient and continuous tracking , monitoring and management of clipboard entries
- Implemented customization features for font-size, history size, preiew lengthand window theme through command line arguments, enhancing user flexibility
- Developed an intuitive user interface for easy clip management with delete and copy functionalities, ensuring a seamless user experience

SKILLS

Programming: C, Python, JavaScript, HTML, CSS, SQL, Flask, Django, Node.js, React.js, Git, Bootstrap, Tensorflow, Pytorch, Prompt engineering, Copilot and GPT
Soft Skills: Teamwork, Adaptability, Time management, Attention to detail.