HASSAN ALJUBOORI

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PROFILE

A dedicated Backend Engineer with experience in developing RESTful APIs, utilizing machine learning models, and performing data analysis. Proven ability to lead development teams, deploy applications on cloud platforms, and create comprehensive technical documentation. Passionate about leveraging technology to solve complex problems and improve user experiences.

WORK EXPERIENCE

Web Developer **EuroTech** **September 2024 – Current**

- Maintained and updated **WordPress** Websites to ensured optimal performance, security, and functionality by regularly updating plugins, themes, and core files.

- Developed and launched new responsive websites using **Python**, **Flask**, **CSS**, **HTML**, and J**avaScript**, resulting in improved user engagement and increased traffic through enhanced performance and design flexibility

- Created and implemented **Python** scripts to automate various marketing tasks, significantly reducing manual effort, increasing operational efficiency.

Backend Engineer **WSoftPro** **September 2023 – March 2024**

- Developed a project which automatically implements amendments to legislations through textual analysis & pattern matching. (**Python**, **BeautifulSoup**, **Flask**).

- Ensured program accuracy by creating a test script using **PyTest** to test auto-amendment on 100 different legislations.

- Created new functionality to existing project OpenSanctions (a project to look up sanctioned people individually) to perform batch queries by using excel files as an input. (**NodeJS** & **React**).

- Deployed OpenSanctions for client on **AWS** (using **Docker**), and created local build with installation file by **shell**.

Backend Engineer Intern **Labware** **June 2023 – August 2023**

- Created functions which predicted future inventory based on current inventory using an **ARIMA** model.

- Implemented RESTful APIs and backend with calls the predictor using **Flask**.

- Utilized **ODBC**, **Pandas**, **NumPy**, **PlotLy** to perform data analysis, extraction, and visualization.

- Linked up all components using **Bootstrap** for design, and **JavaScript** to ensure seamless data flow between the frontend and the **Flask** backend.

- Created comprehensive **technical documentation** to assist other team members in understanding the backend systems.

Projects

Co-founder/Technical Lead   [**Volume**](#)   **September 2023 - Current**
- Led a team of 6 developers in creating an A.I based web-app that improves the user's public speaking skills.
- Utilized **Google's Transcription API** to transcribe the user's speech, to then extract 28 sentiments from their speech through **SamLowe's sentiment analysis model**.
- To create an immersive feel of back-and-forth conversation between the user and the A.I, the user's speech is sent to **OpenAI's API GPT 3.5** Turbo to create a textual response, and then create a voice response using **OpenAI's text-to-speech model**.
- Generated a score for the user's pace and tone by audio analysis through **librosa**, **numpy**, and **pandas**
- Created user interface using **Bootstrap** and RESTful APIs using **Flask.**
- Stored crucial information such as user progress data in the database using **SQLite3**
- Configured a **CD/CI Pipeline** on GitHub to automate the deployment of updates the **Azure VM** hosting the server with each commit.

Co-founder/Technical Lead   [**Lyra**](#)   **January 2024 - Current**
- A phoropter with a 3D printable design which incorporates Computer Vision & Artificial Intelligence.
- Led the software development of the phoropter (which was developed on a **Raspberry Pi/Python**).
- Connected the phoropter's hardware to the software using Python's **GPIOD** module.
- Utilized **OpenCV** to create the functionality of eye detection to automatically detect the patient's IPD and align the phoropter accordingly.
- Designed a smart lens selection system which rotates the internal wheels of the phoropter to accurately pick the lens that is required by the doctor.
- Designed and deployed the company website which goes into the phoropter in more detail using **Bootstrap/JS.**

EDUCATION

University of Birmingham   **Expected Graduation:June 2025**
BSc Artificial Intelligence

SKILLS AND INTERESTS

Languages: Arabic, English

Skills: Python, PHP, Javascript, Git, HTML, CSS, WordPress, Shopify, SQLite, AWS, Azure, OpenCV, Docker, Flask, Pandas, Numpy

REFERENCES AVAILABLE UPON REQUEST