Marwan Haj Mohamed

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Summary

Passionate and quick-learning programmer with a First class Honours bachelor's degree in computer science from Brunel University London. I was picked for developing and launching the consultancy company BTM (mentioned below) based on my passion for learning and eagerness to be involved in projects. Strong background in software development, AI, and machine learning, with extensive experience in designing, implementing, and optimising innovative solutions. I thrive on challenges and am dedicated to staying up to date with the latest technologies and methodologies. My commitment to continuous learning allows me to adapt quickly to new environments and contribute effectively to diverse projects. Proven ability to lead agile teams through entire project lifecycles, successfully developing functional software that meet the customer's requirements.

Employment History

Frontend Developer, Brunel Talent Marketplace (BTM)   August 2022 – May 2024
- Launched the consultancy company BTM derived from Brunel University. BTM is a startup that aims to deliver IT services at affordable prices.
- Since its launch, I was involved in delivering **3 different products** to **HecoAnalytics**; HecoCalc, HecoCost, HecoRep.
- The BTM website was developed using **React**, in an **agile** environment with a team of **3 developers**.
- **Communication** was key, and **timely delivery** was important, allowing me to learn these valuable skills throughout my time at BTM.

Full Stack Developer, Healio   Nov 2023 – Feb 2024
- Developed a **Random Classification** model using **Python** to predict a disease from given symptoms.
- Created an algorithm to extract symptoms from a given text, which had **80% accuracy** after thorough testing.
- Used **Springboot** and **MySQL** to store user details and conversations and **React** to develop the frontend.
- Hosted the model with **Flask**, and the full stack application using **Vercel**.
- Employed **gpt-turbo-3.5** to facilitate responses to non-health related queries, enhancing user engagement.

Frontend Developer, HecoCalc   Dec 2022 – May 2023
- Built a **React** website that features a health economic platform which supports cost-effectiveness and cost-utility analysis.
- Constructed a **sensitivity analysis** algorithm that calculates incremental costs used to plot a **tornado diagram** in React.
- The library **Recharts** allowed me to visualise the line graph and **devextreme** was used to visualise the tornado diagram.
- Stored user details in **AWS Cognito** and **JSON** files in **S3** buckets.

Scrum Master, HecoCost   Aug 2023 – Jan 2024
- Led 4 sprints as **Scrum Master**, ensuring timely **delivery** and **team coordination**.
- Guided the team whilst developing a web application using **React**, **AWS Cognito** to store user details, and **S3** buckets to store **CSV files**.
- Implemented processes and procedures to ensure compliance with **Scrum principles**.

Education

*BSc Computer Science, Brunel University, **First Class Honours***   Sep 2021 – May 2024
*A Levels in Mathematics, Computer Science, Economics and Arabic, **BBBA***   Sep 2019 – May 2021

Skills

- HTML, CSS, JavaScript, React, React Native, Python, AWS, SQL, Java, Springboot, Git.
- Time management, leadership, teamwork, communication, problem solving, agile, requirement gathering.

Achievements

Awarded a certificate for winning the annual Made in Brunel competition for presenting my final year project, Healio.

Languages

English – fluent, **Arabic** – fluent