Marwan Haj Mohamed

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Summary

Three years of experience as a Frontend/Full Stack Developer with a First Class Honours degree in Computer Science from Brunel University London. Skilled in developing responsive user interfaces and efficient back-end systems using modern technologies like React, Node.js, and SpringBoot. Proven ability to deliver high-quality software solutions in Agile environments, with a strong focus on performance, scalability, and user experience.

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

Employment History

Frontend Engineer, 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 engineers**.
- **Communication** was key, and **timely delivery** was important, allowing me to learn these valuable skills throughout my time at BTM.

Full Stack Engineer, Healio   Nov 2023 – Feb 2024
- Developed a **Random Classification** Artificial Intelligence 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 Engineer, 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**.

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