ISMAIL MOHAMAD

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PERSONAL SUMMARY

A recent Mechanical Engineering graduate with a 2:1 honour degree from Queen Mary University of London, looking to secure a software developer position to further develop my programming, analytical and problem-solving skills in a practical and fast-paced environment. During my 2nd year at university, I started to learn MATLAB for a coursework I had to do which grew my interest in learning to code. I decided to focus on learning to program using Free Code Camp at the end of my third year leading me to learn Front-End development using JavaScript and React and then learn Django for backend development. My career goal is to assume a role which allows me to collaborate with other developers whilst writing clean code and to learn industry best practices while working in a software engineering role.

SKILLS

Languages
JavaScript, Python, Django, HTML, CSS, SQL(Basic), React, jQuery.
Technologies Tools
VS Code, Git, Microsoft Office.

Certificates

Python for everybody specialization
5 course specializations that introduces data structures, networked application program interfaces and databases. Each course is listed below:
- Programming for everybody(Getting Started with Python)
- Python Data Structures
- Using Python to Access Web Data
- Using Databases with Python
- Retrieving, Processing and Visualizing Data with Python

JavaScript Algorithms and Data Structures

Front End Development Libraries

EDUCATION

Sept 2018 – June 2021: Queen Mary University of London - BEng (2:1) in Mechanical engineering.

Key Modules– Control Systems Analysis and Design, Engineering Instrumentation, Computer Aided Engineering for Solids and Fluids.

Sept 2015 – June 2018: A Levels Maths, Physics and Further-Maths.

Sept 2013 – June 2015: 11 GSCE'S (A*-C).

EXPERIENCE

Django – Django News Website – 2022

- Followed the Django for beginners' book to learn how to develop full stack web applications using the MVT (Model View Template) architecture.
- Developed multiple applications including A newspaper site with user authentication.
- Implemented user authorizations using Mixins, so only logged in users could view the site.

Python – Developed a web scraper API using Flask – 2021
- The Project aimed to simplify the process of finding a research article relating to the topic you were researching.
- I used the python request and bs4 library to develop the scraper.
- Flask was used to build an API which received the request and replied with a JSON object.
- During the development I implemented unit testing to make sure the application behaved as expected.

Frontend Mentor- JavaScript, HTML and CSS– 2021
- Developed component such as an FAQ accordion card, order summary card and many more.
- Built a time tracking dashboard which uses JavaScript to sort through by time frame.
- Built a sign-up form component which provides form validations using JavaScript.
- Used Mobile-first approach to develop the websites.
- Versioned using git and deployed to GitHub pages.

React- JavaScript and Front-End libraries – 2021
- I developed a pomodoro clock, a calculator and a drum machine using React.
- State was used to keep track on changes within the application.
- Props were used to pass the state to the child components.
- Developed a quote machine using jQuery.

Final Year Dissertation – Life cycle assessment of hydrogen production from biomass gasification – 2021
- The Project investigated the environmental effects of creating hydrogen from biomass using a Life cycle assessment approach.
- Microsoft office, USLCI database.
- The results showed that hay has the biggest impact on the environment and by-products such as wheat straw and sawdust can be used to create hydrogen while having less emissions associated with them.

QMUL Archery Club – Treasurer - 2020
- I was responsible for the book-keeping and budgeting for the club.
- Used excel to keep track of finances.
- Secured funding for club members to train at an archery club when the 2nd lockdown occurred.

ADDITIONAL INFORMATION

I am a keen cyclist and I regularly do archery. I took part in university competitions in my third year. I am currently learning how to develop full-stack applications using Django for professionals book and I a developing my problem solving and algorithm skills using the "Problem Solving with Algorithms and Data Structures using Python" book by Brad Miller and David Ranum.