# 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.