## Qualifications

BEng Aerospace Engineer, University of Hertfordshire, 2018

## Profile

I first developed an interest in programming when I was introduced to Matlab and Python at University. At this point I began to form a foundational understanding of programming which helped to prepare me for my training at QA. Upon being given the opportunity to join QA I have rapidly developed a foundational full stack software skillset and I am now eager to continue to learn and advance my career in the software industry.

I am an industrious and passionate individual. The strengths I most value in myself include my creative problem solving, attention to detail, responding well to feedback, organised work-flow and planning from end-to-end projects. I have been responsible for the completion of end-to-end projects during my time at university, various programming projects upon graduation and have substantial experience presenting in front large groups of people including qualified professionals and professors.

Technical Skills

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| **Technology Domain** | **Technologies and Tools** |
| Programming Languages | Java, HTML, CSS/Bootstrap, JavaScript, Python |
| IDE’s | Eclipse, Visual Studio Code |
| Operating Systems | Windows |
| DevOps Technologies | Git |
| Database Technologies | MySQL, H2 |
| Project Frameworks | Agile Scrum |
| Other | MATLAB, React, Jenkins, Postman, Wireframes |

## Experience

### QA Consulting – Consultant

#### Full Stack To-Do List Website

The purpose of the website was to input a list of tasks that can be checked off when done. The tasks could then be added as a project in the sidebar that stored the tasks in a database. Multiple projects can be added with full CRUD functionality allowing the user to update and delete existing lists. The website also offered functionality to create a user account and login to access personalised task lists. I then created a REST API in java with logic to provide communication between a h2 database and the frontend using HTTP method requests between the server and frontend.

#### Treasure Hunt Game OOP Application

Developed an object oriented text based game in java. The game spawns you on a randomly generated coordinate on a 2D map. The aim of the game was to use the input prompts of North, East, South and West to move your character and locate the treasure. Various feedback is given to the user via a text output by which I used trigonometry to calculate and provide the distance from the treasure as well as text to display a story and victory message. I used GitHub as well as branching features to save my project for colleagues to view.

#### Individual Project

I possess the ability to work independently and oversee the planning and execution of large scale projects. I completed my final year project titled ‘Design and Evaluation of a High Altitude Long Endurance UAV’, creating a project plan in the form of a Gantt Chart and project timeline which detailed one year of independent work. The final product was to produce a 50-page finished document centred around new and upcoming technologies in long endurance flight. The project consisted of research and CATIA design and drafting of a new UAV capable of continuous year round flight in which I modelled and drafted detailed components to produce an autonomous drone. I then produced a theoretical analysis using an X-plane simulation. Finally, I presented my work in front of Panel which was followed by questions, honing my skills to effectively communicate and explain the work I had been involved in. In the process I acquired independent time management, attention to detail, CATIA Design skills and end-to-end project management skills.

## Additional Information

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| * First aid/Fire prevention training | * Manual / Heavy lifting | UK passport/ security clearance |
| * Presentation skills | * Full, clean driving license | * Health and Safety at work training |
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## Hobbies/Interests

I also enjoy listening, playing and writing music. I have been playing piano for the past five years and I find the creative outlet to and composing skills. I continue to learn new technical skills.

I also try to maintain a healthy and balanced lifestyle, which includes exercise. I love to watch and participate in sports such as football which allows me to stay fit and helps support my work life.