## Qualifications

Aerospace Engineering BEng, 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 skill set. I have also undergone additional training in software testing that includes an ISTQB certification. 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 skills. I have been responsible for the completion of long scale end-to-end projects during my time at university, various full-stack programming projects upon graduation and have substantial experience presenting in front of large groups of people in a clear and professional manner.

Technical Skills

|  |  |
| --- | --- |
| **Technology Domain** | **Technologies and Tools** |
| Programming Languages | Java, HTML, CSS/Bootstrap, JavaScript, Python |
| IDE’s | Eclipse, Visual Studio Code, IntelliJ IDEA |
| Operating Systems | Windows, Linux (Ubuntu) |
| DevOps Technologies | Github <https://github.com/bernardabraham> |
| Database Technologies | MySQL, H2, MongoDB, PostgreSQL |
| Project Frameworks | Agile Scrum, Waterfall |
| Other | Maven, React, Jenkins, Postman, Google Cloud Platform, Maven, UX, Selenium, Cucumber, TestNG, JUnit |
| Social media | <https://www.linkedin.com/in/bernard-abraham-a788baa6/> |

Experience

### QA Consulting – Consultant

#### Full Stack To-Do List Website

I developed a full-stack website that provided functionality for users to sign in and create multiple to-do lists under different project names with CRUD functionality. Using SQL H2 to store data, Java to create a RESTful API and JavaScript to format the front-end. The website is hosted on a Linux virtual machine on Google Cloud Platform using Jenkins as a CI tool to push up new maven builds from GitHub.

#### Treasure Hunt Game OOP Application

I developed an object-oriented text based game in Java which leveraged the four pillars of OOP programming. The aim of the game is to move your character from a randomly generated coordinate on a 2D map towards a treasure chest, using input prompts to move the character in the direction of a compass. 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 branching features to provide version control for the project.

#### University Individual Project

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 give technical explanations.

## Additional Information

|  |  |  |
| --- | --- | --- |
| * First aid/Fire prevention training | * Manual / Heavy lifting | * UK Passport/Security clearance |
| * Presentation skills | * Full, clean driving license | * Health and Safety at work training |
| * ISTQB Certified Tester Foundation Level |

## Hobbies/Interests

I 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.

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.