

## Personal Statement

I am a **First Class** Hons Computer Science graduate from the University of Bath. I am currently looking for an innovative software engineering role in London. I am interested in roles that require me to create bespoke solutions and push boundaries to meaningful problems, building on my interests in Software Engineering and Data Science.

## Education

### University of Bath, United Kingdom (2016 - 2020)

#### BSc (Hons) Computer Science degree

University exposed me to **Java** for learning the fundamentals, **C++** when creating a raytracer with photon tracing and **Python** for AI and Machine Learning modules. My dissertation in the 'Extraction and Visualisation of Vortices from Instantaneous Particle Image Velocimetry' used Python to analyse data with the Plotly visualisation framework. The project resulted in three distinct plots designed to visualise the time-oriented data within a two-dimensional domain and earned a **first-class** classification.

### Tanglin Trust School, Singapore (2007 - 2016)

#### A Levels (2016)

**ABB** in Mathematics, Physics and Computer Science with a **B** in an Extended Project Qualification.

#### GCSEs (2014)

10 GCSEs including **A\*A\*A** in Mathematics, Chinese and English respectively.

### British School In Tokyo, Japan (2003 - 2007)

#### General Education

Primary education following the british curriculum.

## Experience

### Renault Sport Racing/Alpine F1, Power Platform Developer (2020 – Present)

Utilising the **Microsoft Power Platform** to develop applications to enhance critical company processes. I worked directly with end-users which compassed DevOps, UX/UI design and the consumption of OData APIs from **Dynamics 365**, earning company-wide recognition for my achievements.

### Scuderia Toro Rosso, Aero Performance Group Intern (2018 – 2019)

Built a correlation tool in **MATLAB** to aid analysis, including peripheral APIs for the tool to interact with existing systems. This allowed for the visualisation and efficiency for key stakeholders to increase. Being the sole software engineer in the group, this has given me experience through all aspects of the development cycle and the skills to articulate across disciplines to achieve team goals.

### Technology for Learning Intern (2017)

I was a valuable resource to teachers and students. As part of my job I ran biweekly sessions to help introduce Mother Tongue teachers to the software in use at the school. I also assisted in other departments, such as Computer Science and Mathematics teaching years 7 to 12.

## Technical Experience

### Languages

Python, MATLAB, Java, C++

### Software

Microsoft Office, Microsoft Power Platform, Azure DevOps, Github/TFS, NPM, REST API

## Professional Development

### Edx, Inc. (MOOC platform)

#### Learn HTML5 - W3C (2015)

Learnt the fundamentals of classical web development without the use of frameworks.

### Future Learn. (MOOC Platform)

#### Big Data: Human Behaviour - The University of Warwick (2015)

Basic introduction to the language **R** and data analysis on Big Data.

## Personal Development

### Side Projects

#### RubLab (2020 - Present)

Due to Strava's reclassification of some free features to premium, an effort to extract and visualise my data was born. The project is spread over two repositories that interact using a **REST API**. RunLab Web uses HTML, CSS and JavaScript with React to create the frontend and RunLab-Core uses Java hosted locally by **SpringBoot** for the backend.

#### COVID Dashboard (2020)

Utilising what I learnt during my Final Year Project I used the **Plotly** dash framework to visualise COVID-19 data using the UK Government's API. The dashboard includes an animation I made of the United Kingdom to visualise the number of cases by local authority districts with geodata taken from the Office for National Statistics.

### Extra Curricular

#### British Army, Officer Cadet (2016 – 2018)

Joining the Bristol University Officers Cadets has taught the importance of being part of a team while recognising the value of independent thinking. It has also demonstrated the importance of clear goals and the discipline required to reach them, this allowed me to improve my confidence and interpersonal skills.

#### NYAA

As part of the Gold Duke Of Edinburgh award, I had the opportunity to trek in Ladakh and helped at a community medical facility. It proved challenging but hugely rewarding to test myself, build a strong team spirit and provide for those in need.