

# Matthew Frankland

Code Repository: <https://github.com/m-f-1998/>

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## Personal Statement

I am a 1st Class MEng Software-Engineering Graduate with a strong academic record; a solid range of employment experiences (particularly in application & software design); and a number of valuable life skills from extra-curricular and voluntary activities. My background has allowed me to develop confidence in working as part of an agile dynamic team; organisational skills in writing and analysing structured code; and time-management in planning for important deadlines.

## Education

### Heriot-Watt University {Sep 2016 – Jun 2021}

MEng Software Engineering - 1st Class

- Year 1 Recognition: Certificate of Merit <sup>1</sup>
- Year 2 Recognition: Certificate of Merit <sup>1</sup> & Deputy Principal's Award <sup>2</sup>

Course documentation found at: [https://www.hw.ac.uk/documents/pams/202021/F2M1-SOE\\_202021.pdf](https://www.hw.ac.uk/documents/pams/202021/F2M1-SOE_202021.pdf)

### Hawick High School {Aug 2010 – Jun 2016}

- Advanced Higher: Mathematics (C)
- Higher: 1\*A and 6\*B including English; Chemistry; and German

*Qualification certification available upon request.*

### Royal Scots College, Salamanca, Spain {Jan 2023-Jun 2023}

- Propaedeutic Philosophy/Theology

## Employment - *Relevant Work-Experience*

### VITEC/Exterity

Graduate Software Engineer {Jun 2021 - Oct 2022}

Intern Software Engineer {Jun 2019 - Jun 2021 (10 months Full-time; 14 months Part-time)}

My role as an Exterity Intern involved me assisting in the development of next generation products and applications to deliver high quality TV and video over enterprise IP networks. These applications span a full range of IPTV products, from head end through to set top box and server, building a coherent and comprehensive technology stack. I later assisted the Cloud Development team in virtualising their server based product using AWS technologies. I have gained experience using the following languages and frameworks: JavaScript/Typescript Angular; Python; REACT Native; PHP; HTML5 & CSS3.

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<sup>1</sup> Award for average grade of above 70%

<sup>2</sup> Award for achieving greater than six A grades in an academic year

## **The Hawick Paper**

Application Developer {Jun 2020 - Dec 2020}

My role with The Hawick Paper involved creating, designing, and deploying a React-Native mobile interface (iOS & Android) for the distribution of The Hawick Paper's online content. I also wrote data controller for this interface using Python. I am responsible for maintaining this interface with regular updates and managing paying subscriptions taken out through the relevant App Store.

## **Turnbull & Scott**

WordPress Web Tools Developer {Jun 2018 - Aug 2018}

My role at Turnbull & Scott involved me developing their WordPress website. I gained experience in a combination of languages including HTML5; CSS3; JavaScript; and PHP (with use of the strict WordPress syntax). I also gained a number of key soft skills including:

- The ability to adapt to rapidly changing requirements and managing expectations within a realistic context
- Analytical and problem-solving skills in relation to debugging; writing test cases and security
- The capability to prioritise and manage my time to meet expectations and production deadlines all within a tight framework of 3 contracted months

## **Emtelle UK**

Junior IT Support Technician {May 2016 - Sep 2016}

## **Employment – *Non-Relevant Work-Experience***

### **Heriot-Watt University - Periodic Employment**

Computer Lab Assistant for Data Communications and Networking {Sep 2019 - Nov 2019}

Computer Lab Assistant for Data Structures and Algorithms {Sep 2020 - Nov 2020}

Student Ambassador {May 2018 - Sep 2018}

### **Hinduja Global Solutions**

Customer Service Advisor - Student Finance England Contract {May 2017 - Aug 2017}

## **Areas of Expertise & Personal Skills**

*Hard Skills* (code examples at <https://github.com/m-f-1998>)

- Programming Languages
  - *JavaScript/Typescript Angular; React-Native; MySQL; HTML5/CSS3; PHP; UML; C#; Swift; Python*
- Object-Oriented Design
- Software Design; Testing; Debugging; and Optimisations

*Soft Skills*

- Communication and Team-Skills: Working with others to achieve common-goals.
- Problem Solving: I plan strategically in order to solve complex problems. I am also good at explaining complex technical solutions to non-technical colleagues.
- Organisational Skills: I am good at organising myself and others in order to complete tasks in the most efficient manner possible.
- Reliable/Responsible: I always follow through given tasks to the best of my ability.
- Self-Motivated: I have clear goals and I do whatever is required to achieve these goals. I can however recognise where I need extra help and I am happy to take advice and learn from others.

An example of a task which best showed my use of these soft skills was an Industrial Group Project that I completed as part of the 3<sup>rd</sup> Year of my MEng course. In a group of six we are managing the creation of: requirements documentation; costing breakdowns; and functioning end-to-end prototypes. A second example would be my Honours Dissertation in which I created a Learning Management System for higher education students. This was a large piece of work that required me to be organised, self-motivated and determined to succeed.

## Interests

I enjoy developing on a wide range of Operating System's including iOS; Unix and Windows. This gives me a keen understanding of how these products function and allows me to develop my problem-solving skills in order to resolve issues others are having with their devices.

I have also acquired a passion for building desktop computers from physical hardware. This involves me developing an understanding of the performance of hardware components, compatibility between disparate products, and how to appropriately budget according to build requirements.

## References

References available upon request.