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**Personal Profile**

I am a 5th year MPhys Physics student at the University of York. I recently completed a 14-month placement in the Devops and Development teams for MQ at IBM. My placement has truly sparked a passion for all things technology. I’m always enthusiastic to learn, whether it be a language or an emerging technology. I bring the problem solving and methodologies of a scientist into a professional environment, producing effective results. I am predicted for a 1st in my final year, completing a project in the development of a stabilisation system for a motorcycle.

**Education and Qualifications**

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| **2013-present** | **Master of Physics (5th Year), University of York, Predicted 1st class degree award.**  Current academic average grade from the previous 4 years – 69%.  Completed multiple modules in a wide range of subjects, but strong strengths in mathematics and mechanics. |
| **2011-2013** | **6th Form College, Sandbach School**  A levels: Physics (B), Mathematics (A), Further mathematics (B). |
| **2006-2011** | **Secondary Education, Sandbach School**  GCSEs: 5A\*, 5A, 2B. |
| **Driving Licence** | **Hold a Clean Full UK driving licence since 2012.** |

**Notable Work experience**

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| **July 2016-August 2017** | **Software Development Engineer UP, IBM, Hursley**  I worked in a multi-role and dynamic team environment maintaining stability in the build and testing infrastructure for two of IBM’s biggest products, MQ and IIB.  I started my placement in the RED (Release Engineering Distributed) team and I was responsible for completing and triaging the operational work from the internal stakeholders. Ticketed work was diverse and varied, giving me the opportunity to learn the intricacies of differing UNIX based operating systems and kernel specifics.  Later, the RED team underwent a departmental move and became part of the development teams for two core products of IBM - MQ and IIB. This led to the development of several new tools, including ‘Ansible’ (an automation engine).  I led a small team on the design and deployment of a mechanism to allow ‘Ansible’ functionality across hundreds of Windows VM’s and servers from a central RedHat control server.  I still worked with colleagues from the OLD\_RED team and I produced and deployed a lightweight ‘Perl’ program called ‘Robustify’. ‘Robustify’ improved the long-term stability of the 1000’s of machines we were responsible for. This enabled my team to free up operational time by resolving any repetitive issues automatically.  I also worked on multiple additional projects, both inside and outside my core role. One example was XploreIT. XploreIT is a ‘interactive’ teaching/demonstrating event of emerging technologies e.g. machine learning with Watson API’s. The audience was primary school children. I have been nominated by my university for the NUE ‘best placement student’ award in the UK. |
| **July 2015 – August 2015** | **Summer Internship, University of York**  Worked with a research group in the Physics department as a MatLab programmer, as well as shadowing ASEM (Atmospheric Scanning Electron Microscope) experiments. Other than the ASEM observations, this role was completed independently from the university, but still resulted in an effective program used to remove noise from miscopy images. |
| **July 2013 – Sept 2013** | **KMT Services, Fryer maintenance work, Countrywide**  Travelled to many KFC outlets around the country to perform general maintenance and repairs to the fryers. Gained sustained experience working in a busy commercial environment under time constraints, whilst maintaining strict health and safety standards. |
| **June 2012 – Aug 2012** | **Data Driven Logistics, Mathematical consultant and junior programmer, Stoke-on-Trent**  Worked on the mathematics of an intersection problem for mobile tracking software and a warehouse picking problem. Whilst working, I learned basic java to produce usable API’s of the solutions found. Gained experience working within a team of programmers in a professional environment whilst learning to manage my time effectively to meet deadlines. |

**Voluntary Work Experiences**

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| **Feb 2016-present** | **Participant in Careers Panels, University of York**  I proactively encourage university students to consider 12 month placements. I have been a panellist on several occasions at departmental events and recruitment fairs (e.g. 4th WRIPA recruitment fair, Sheffield). I am also a contact for students that have questions about placements. |
| **Jan 2016 – March 2016** | **Careers Mentor, Southampton Solent University.**  I worked as an industrial mentor, on a 1:1 basis with a UG student. We met fortnightly to improve the student’s CV and applications. |
| **June 2009-present** | **Vinefest, Event Organiser and Chef.**  For the last 8 years I have been involved with the organisation of the charity event “Vinefest”. Operating as a chef on the day of the event raising thousands of pounds for a number of charities, including “Help for Heroes” and the North-west Air Ambulance. |

**IT, Technical and Professional Skills**

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| **General Computing** | Proficient with Microsoft office packages. Gained practical experience of building and repairing computers by constructing my own high-performance PC. Also have a working knowledge of Git (& Github), Python, MatLab, Java and Labview. |
| **Problem solving** | Excel at solving both logic and mathematical problems, maintaining an 89% average in university mathematical examinations. I used advanced special geometry techniques when designing a program for a GPS intersection problem whilst working for Data Driven Logistics. Other mathematical techniques such as decision maths were also useful in this role. |
| **Practical Experience** | Completed 3 years of experimental laboratories. I have developed high-level book keeping and documentation skills. I have also used a variety of analytical techniques, including statistical and computational approaches, and gained experience of how to extract and interpret data. This was especially useful during my time at IBM, when finding bottlenecks in the testing systems to improve development team’s productivity. |
| **Communication & Team Work** | I understand deadlines and the importance of communication with others. Using tools like GitHub to create and structure work flows, achieving targets and continuous delivery. I understand the vast importance of documentation of work and historic information, this was key when completing operational issues whilst in the RED team for information continuity.  I can also pull from a wide range of experiences from many part-time jobs and voluntary activities. These opportunities have given me the experience of being a team member in academic, charitable and commercial environment. |

**Interests and Responsibilities**

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| **Sports** | Recently, I completed the Yorkshire Plusnet 2017 Marathon (4h:14m:14s). |
| **Gaming Society** | For two years, I was a committee member of the university gaming society. Regularly, I ran LAN events for up to 100 people, and also organised the first varsity gaming event in the country as part of the “Rose’s” games. |