James Davies

55 Acomb Wood Drive

York

North Yorkshire 07889738467

YO24 3XN [JD1042@york.ac.uk](mailto:JD1042@york.ac.uk)

**Personal Profile**

I am a 5th year MPhys Physics student at the University of York. Taking a year in industry, working in the devops and development teams for MQ at IBM has truly sparked a passion for all things technology. Always enthusiastic to educate, 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 aiming for a 1st in my final year, completing a project in the development of a stabilisation system for a motorcycle.

**Education and Qualifications**

|  |  |
| --- | --- |
| **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**

|  |  |
| --- | --- |
| **July 2016-August 2017** | **Software Development Engineer UP, IBM, Hursley**  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. Developing skills in a distributed environment holding responsibilities to repair, configure, and update 1000’s of severs and VM’s. Had a lead role in a large infrastructure upgrade, designing and distributing a deploy mechanism for windows machines, allowing the use of Ansible whilst staying compliant.  Gained multiple programming skills in Perl, Bash, PowerShell, etc throughout the operational role completed in the 14 months working. |
| **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. For example, a noise removal program which corrects any deformation within the SiN windows used in both ASEM and TEM (Transmission Electron Microscope). I still meet with my supervisor and research group during term time to work voluntarily on these projects. |
| **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**

|  |  |
| --- | --- |
| **Feb 2015-present** | **University of York, WRIPA Representative.**  I am immensely encouraging placements out in industry to other university students, at University of York and other universities. Have been a panellist on multiple occasions at WRIPA events like the 4th WRIPA careers fair at Sheffield, as well as a contact for students for any questions about placements. |
| **Jan 2016 – March 2016** | **Careers Mentor, University of Southampton.**  Working with the university as an industrial contact and paired up with a student to enhance employability and application success for industry roles. Worked on a 1:1 basis meeting every two weeks, improving CV’s and applications, directing towards a professional environment over an academic one. |
| **June 2011-present** | **Vinefest, Event Organiser and Chef.**  Organise and set up the annual charity event called the Vinefest. Over the last 5 years, Vinefest has raised thousands of pounds for a number of charities, including “Help for Heroes” and the North-west Air Ambulance. I work in the kitchen as a chef – preparing food, serving customers and handling money. This gives me experience working in a high pressure environment to a set of health & hygiene standards to ensure food is served in a timely manner. |

**Additional Skills**

|  |  |
| --- | --- |
| **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 two 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** | Understand deadlines and communication to others. Using tools like GitHub to create and structure work flows, achieving deadlines and continuous delivery. Understand the vast importance of documentation of work and historic information, this was key when completing operational issues at IBM for team 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**

|  |  |
| --- | --- |
| **Gaming Society** | Have been a committee member of the university gaming society for two years, running regular LAN events for up to 100 people. Duties involved setting up a large hall with appropriate power and networking capabilities, while maintaining health and safety standards. I was involved in the arrangements behind a competitive event between University of York and Lancaster University as part of the “Roses” event held by the two universities. |
| **Sports** | I like to stay active by participating in a number of sporting interests, including running, cycling, swimming and fitness sessions. I am a regular climber, bouldering most weeks at a local climbing centre. I have just completed the Yorkshire Plusnet Marathon (4:14:14) |

**References available on request**