Samuel Jackson

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PROFILE

I am a fourth year undergraduate software engineering student at Aberystwyth university currently on track for a first. I have recently finished an industrial placement year as part of an international development team to build a cutting edge data analysis application using an object orientated language. During the final year of my degree I have developed a RESTful client application for Linux environment.

KEY SKILLS

Communication: During my industrial placement I worked daily with customers who were technical experts in their field to realise their computing needs. As a practical demonstrator it is important to communicate technical content clearly to people who are less knowledgeable than myself. My experience as a student ambassador and SSCC member taught me to communicate ideas and opinion effectively to both university faculty and students.

Teamwork: I've recently worked as part of a international, multi-skilled development team as part of my industrial placement. During my time there I worked on many different projects involving different subsets of the team's members to meet the project's goals. I completed a major group project as part of my degree which simulated a real world project where I took on the role of lead developer and was successfully able to orchestrate the team to build a working end product.

Planning, Design and Organisation: On my placement year I was responsible the design, implementation and maintenance of an entire subsection of the project focusing on a specific scientific technique. I also responsible for redesigning one of the core features of the system, from requirements analysis through to implementation.

Technical Knowledge: My IY project was primarily written in C++ and my university's group project module was a Java web application, giving me a strong OO background. The group project was also built using a MySQL database. During this year I created a RESTful client application from scratch for an internet applications assignment.

EDUCATION

University of Aberystwyth
Ceredigion, Wales, UK   *September 2011 - Present*
MEng. Software Engineering, September 2011 (expected graduation date: June 2016)

Key Modules:
- C, C++ and Java Programming (86%)
- Program Design, Data Structures and Algorithms (88%)
- Modelling Persistent Data (96%)
- Web Development Tools (94%)
- Developing Internet Based Applications (Result Pending)

New College
Swindon, Wiltshire, UK   *September 2008 - June 2011*
- BTEC National Diploma in Software Engineering: Triple Distinction
- Business Studies A Level: B
- Computing AS Level: B

Dorcan Technology Collage
Swindon, Wiltshire, UK   *September 2003 - June 2008*
10 GCSE's grades A*-C including Maths grade A and English grade A.

PROFESSIONAL EXPERIENCE	**Practical Demonstrator, University of Aberystwyth**

Practical Demonstrator, University of Aberystwyth
Aberystwyth, Ceredigion, Wales, UK   *October, 2012 - Present*

I am currently employed as a practical demonstrator for Aberystwyth University helping to teach Java, C++, C and Haskell. This position has sharpened my communication and technical skills as I must be able to confidently pass on my knowledge to others and explain complicated concepts clearly.

Student Ambassador, University of Aberystwyth
Aberystwyth, Ceredigion, Wales, UK   *August, 2012 - Present*

I am currently volunteering to be an open and visit day ambassador for the university. The role requires me to talk to prospective students and their families about what it is like to live and study in Aberystwyth. I am also responsible for giving tours of the computer science department and helping to get prospective students to talks and interviews conducted by the department on time.

Software Developer, ISIS Neutron Source, STFC
Rutherford Appleton Laboratory, Harwell, Oxfordshire, UK   *July, 2013 - August, 2014*

I have recently been employed as part of an industrial year placement as a software developer for ISIS Neutron source. I was primarily responsible for the development of the data analysis framework for indirect geometry instruments, but also helped develop the general framework during my time with the project. I was involved with every step of the development process from requirements gathering to design, through to implementation, testing, and maintenance.

HONORS AND AWARDS

Glyn Emery prize for best first year student, University of Aberystwyth, 2012.

TECHNICAL KNOWLEDGE AND SKILLS

- Languages: Java, JavaScript, PHP, C++, Python, C, Haskell.
- Applications: Eclipse, Apache, Netbeans, Qt Designer.
- Tools: Git, JUnit, CxxTest, CMake, GDB, Valgrind, LaTeX.
- Libraries: JQuery, WebGL, OpenGL, Qt, Boost, Numpy, Scipy, scikit-learn, scikit-image.
- Operating Systems: Unix/Linux, Mac OSX, and Windows.

VOLUNTEERING

Student-Staff Consultative Committee Member
University of Aberystwyth, Aberystwyth, Ceredigion, UK   *September, 2014 - Present*

Since my return to Aberystwyth I have volunteered to be a member of the staff-student consultative committee. This position has involved attending and contributing to regular committee meetings and aiding with student drop in sessions and coffee mornings. This has compounded improvements to my communication and teamwork skills already developed during my professional career.

INTERESTS

In my free time I enjoy reading (mostly classics and science fiction) and playing tennis and squash. During my industrial year I got involved with the department's Aunt Sally team where we won the cup.

REFERENCES

Prof. Reyer Zwiggelaar, rrz@aber.ac.uk
Director of Research, IMPACS, University of Aberystwyth, Aberystwyth, Ceredigion, UK

Mr. Nick Draper, nick.draper@stfc.ac.uk
Mantid Project Manager, Rutherford Appleton Laboratory, Harwell, Oxfordshire, UK