Samuel Jackson

CONTACT INFORMATION	54 Rhosendre, Waun Fawr, Aberystwyth, SY23 3PU	*Tel:* 07895 318714
		E-mail: slj11@aber.ac.uk
		Website: samueljackson.me

PROFILE

I am a fourth year undergraduate software engineering student at Aberystwyth university. I have already completed two years of my undergraduate with an average of a first. I have also recently finished an industrial placement year as a software engineering at the Science and Technology Facilities Council. In this role worked as part of an international development team to build a cutting edge data analysis application. I am now six months into the fourth year of my degree and have just started working on my dissertation project involving mammogram image analysis.

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 was important to communicate technical content clearly with people who are less knowledgeable than myself.
- My experience as a student ambassador and staff-student committee member taught me to communicate ideas and opinion effectively to both staff 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 I worked on many different projects involving different subsets of the team each with different skills and domain knowledge 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. I was successfully able to orchestrate the team to build a work end product.

Planning and Organisation:
- On my placement year I was responsible for collaborating with customers on the design and implementation of an entire section of the project.
- I also responsible for redesigning one of the core features of the system, from requirements analysis through to implementation.

Technical Knowledge:
- IY project was primarily written in C++ and my university's group project module was a Java web application using a MySQL database.
- During this year I create a RESTful client application from scratch for an internet applications assignment.

EDUCATION

University of Aberystwyth, Ceredigion, Wales, UK
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)

PROFESSIONAL EXPERIENCE	**Software Developer, STFC**, Rutherford Appleton Laboratory, Harwell, Oxfordshire, UK

Software Developer, STFC, Rutherford Appleton Laboratory, Harwell, Oxfordshire, UK

Year in Industry **July, 2013 - August, 2014**

I have recently been employed as a software developer for ISIS Neutron source based at Rutherford Appleton Laboratory in Harwell, Oxfordshire to develop the Mantid neutron and muon data analysis application. This project was primarily written in C++ and Python. I was primarily responsible for the development of the 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. My original contract was extended so I could continue working through the summer before university began.

Practical Demonstrator, University of Aberystwyth, Aberystwyth, Ceredigion, Wales, UK

October, 2012 - June, 2013, September 2014 - Present

I am currently employed as a practical demonstrator for Aberystwyth University. This position involves being on hand during first and second year advanced programming practical sessions to help students with any problems they might have with their worksheets and assignments and signing off on the completed worksheets. I primarily helped with practical sessions teaching Java, C++, C and Haskell.

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, Qt Designer.
- Tools: Git, CMake, GDB, Valgrind, LATEX.
- Libraries: Boost, Numpy, Scipy, scikit-learn, scikit-image, CxxTest, JUnit, Qt, JQuery.
- 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.

Student Ambassador, University of Aberystwyth, Aberystwyth, Ceredigion, UK

July, 2012 - June, 2013, September 2014 - Present

I am currently volunteering to be an open day 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.

INTERESTS

REFERENCES

Dr. Reyer Zwiggelaar, Tutor, rrz@aber.ac.uk
Director of Computer Science Research, University of Aberystwyth, Aberystwyth, Ceredigion, UK

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