GWYLIM WILLIAMS
Senior/Lead Developer, Analyst, Consultant

Location: Oxford, UK
Email: career@gwylim.com
LinkedIn: https://www.linkedin.com/in/gwylim

Profile

For 9 years as a professional software developer I have been a key team member on a variety of projects over all stages of the software lifecycle. My focus is system architecture and Java development with a passion for creating elegant, extensible, maintainable solutions. I have demonstrated great flexibility and have won praise for my swift adaptation to many different roles.

I am seeking a position in which I can employ my skills and creative abilities to solve interesting and challenging problems that have a positive impact on the world.

Skills and Technology Experience

High proficiency: Java, Eclipse, SVN, Mercurial
Test Driven Development, Agile Development Methodology, Object Oriented Design
Experienced: Spring MVC, Bash, SQL, XBRL, JAXB, XML, Swing, concurrency, gradle, Hibernate
Limited use: Apache SOLr, PHP, OpenGL, Android, Google Web Toolkit, JSP, HTML, CSS, Vaadin, REST
Novice: MapReduce, MongoDB, JavaScript, Python, maven, ant, Apache httpd, Linux administration
Example Java project can be found here: https://bitbucket.org/Gwylim/com.gwylim.applications.postit/overview

Personal Skills

- Problem analysis and solution design.
- Able to work solo, or in a team, taking on mentoring and leadership roles as required.
- Experience working in a geographically divided team.
- Excellent verbal and written communication for both technical and nontechnical audiences.
- Able to swiftly learn and apply new technologies.
- Works well under pressure, to tight deadlines.

Qualifications

Degree: BSc Hons Computer Science: Edinburgh University   2001 - 2006

Relevant Modules:
Team System Level Integration Practical (robotic minefield clearance using lego mindstorm and java), Computer Networking, Distributed Systems, Parallel Programming Languages, Operating Systems, Database Systems, Computer Communications, Computer Simulation, Artificial Intelligence

Nuffield Foundation Scholarship: Scottish Agricultural College   2005

I was awarded funding for this competitive summer studentship through the Nuffield Foundation to work independently developing a stochastic simulation of genetic and phenotypic variation in a realistically heterogeneous environment to model the effects of selection. This involved translation of existing work from Fortran to Java then extensive enhancement of the functionality. The resulting application was used as the basis for a PhD project.

Online Courses

2011	Artificial Intelligence	https://www.udacity.com/course/cs271
	Machine Learning	https://www.coursera.org/course/ml
2015	Hadoop Fundamentals I	http://bigdatauniversity.com/courses/course/view.php?id=544
	MongoDB for Java Developers	https://university.mongodb.com/courses/M101J/about

Employment History

Analyst Developer: Nominet   2015 - present

This role I have gained experience with micro service architecture, SQL, Hibernate, Spring, and Vaadin. As a member of the operational applications team I worked on and managed deployment for critical UK Internet infrastructure. I also created applications to improve the monitoring and validation of UK DNS registry systems and radically improved performance of tools used in disaster recovery. I am currently lead developer for migrating the registry codebase from Oracle to Microsoft SQL server.

Senior/Lead Developer and Consultant: CoreFiling   2006 - 2015

At CoreFiling I have progressed from a fresh graduate to lead developer, working on many diverse projects with a large number of technologies. There have also been many opportunities for me to gain experience interacting directly with international customers, both as a developer, consultant and expert advisor.

Positions of note:

- **Lead Developer** CoreFiling UK Companies House data analysis system and HTML and REST web-application: Apache SOLR and data sources including REST, XML and XBRL. http://companies.corefiling.com/: 2014 - 2015
- **Senior Developer** Bank Negara Malaysia Taxonomy development system proof of concept, working in a geographically divided team between the UK and Australia: 2014
- **Senior Developer and Consultant** BaFin application for XBRL submission validation interfacing with client Oracle database and web services: 2012 - 2013 with **International presentations** and **workshops** throughout 2014
- **Technical Lead** For the development of the RIM Service which develops XML schema and schematron rules used for validation on the majority of HMRC's online submission portals which receive thousands of submissions per year. This service generates a consistent revenue for CoreFiling of over £600k per year: 2013 - 2014
- **Developer** Australian Tax Office Taxonomy test web-application using Spring MVC, IOC, security and JSP with database abstraction supporting Oracle and Postgres: 2010 - 2013
- **Technical Architect** and **Team Lead** For the design and development of the RIMLive web app written using GWT; a graphical system to aid requirements specification and quality assurance: 2008 - 2012
- RIM **Client workshops** with HMRC and Aspire for assessing and refining clients requirements: 2008 - 2013
- **Graduate Developer** Cayman Islands Monetary Authority electronic report submission portal project https://ereporting.cimoney.com.ky/auditor/eReporting/security/logon using spring MVC: 2006 and 2012
- **Graduate Developer** CoreFiling XML Validator http://www.corefiling.com/opensource/schemaValidate.html 2006

Select Independent Solo Projects

Cross Platform Game Framework and Released Game   2012 - 2014

Cross platform MVC game framework with OpenGL rendering and heterogeneous input handling and a game released on Google Play using my own artwork: https://play.google.com/store/apps/details?id=com.gwylim.games.canyon.a

Fibre Optic Photochemical Simulation   2010

Development of a full application for analysing the results of physics experiments performed on chemical solutions in a hollow optical fibre. This required the design and creation of a GUI for entering the experimental parameters and data then visualizing the results. This required searching for the best fit against the experimental results from simulation of the physical system with varying parameters. This software was applied to projects at the Edinburgh University and Nurnberg, Germany, leading to several publications and a PhD. http://pubs.rsc.org/en/content/articlelanding/2012/lc/c2lc40062f

Autonomous Arduino Robot   2009

For this personal project I created a 3 wheeled robot using an arduino microprocessor and several I2c controller boards that could roam about a room using independent drive for the wheels and a servo mounted ultrasonic range finder for navigation. Footage can be found here: https://www.youtube.com/watch?v=423i7EG7TAY

Other Interests

I enjoy challenging individual sports; snowboarding, whitewater kayaking, wind surfing, paragliding and rock climbing. Over the summer I coach kayaking at a club in Oxford, for which I was the webmaster for 6 years. http://www.isiscanoeclub.co.uk/
Over 2013 I took on the challenge of doing a substantial renovation of a 1930s semi-detached house, requiring the coordination of 5 contractors and fast acquisition of various skills myself, notably brick laying, woodwork and plumbing.