Curriculum Vitae

Personal Information

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Employment

Barco (July 2005 – present)

I have been employed by Barco [http://www.barco.com] since graduating nearly a year ago. The company builds display and visualisation solutions and I work for the Medical Imaging Systems group on a product called Voxar3D. My job involves developing components for and maintaining this large scale C++ project which spans several codebases and teams. I enjoy learning about and practising agile software development using the extreme programming methodology employed here. I have also been actively learning test driven development and how large scale projects can be handled practically.

Infogistics (August 2004 to October 2004 and June 2002 - October 2002)

I have been employed by Infogistics [http://www.infogistics.com] over two of my summer breaks while at university. They are a company specializing in leading-edge search technology and lexical analysis of plain text. The job involved working with and debugging C/C++ and extensive Perl development to manipulate large XML files. The job taught me how to work with other people's code and to communicate well as part of a team. More recently I worked alongside several new members of staff implementing technical fixes and dealing with support issues from customers. There were several live issues being worked on at any one point and many hard deadlines to be met.

Sun Microsystems (July 2003 to July 2004)

After my 3rd year at University I accepted an offer of a twelve month internship with Sun Microsystems [http://www.sun.com] in the United States. I worked there for the Advanced Development Group in Sun Services where we were responsible for trying out new technologies as they emerged in order to demonstrate their potential use within Services. I learnt a lot about Sun's hardware platforms and how to install, operate and administrate various enterprise applications including:

- Solaris (versions 8, 9, and 10)
- Oracle (version 9)
- Sun Java System Web Server (version 6.0)
- Sun Java System Application Server (version 7.0)

I was also able to strengthen my knowledge of Java and Web based technologies. I achieved the Sun Certified Java Programmer certification and I worked regularly with many different frameworks:

- JSPs
- Servlets

- JDBC
- JAX-RPC
- EJBs

I worked extensively as part of a team and often had several projects active simultaneously. I learnt professional time management skills as well as gaining some project management experience.

Education

Sun Microsystems (2004)
- Sun Certified Java Programmer 1.4

Edinburgh University (2000 - 2005)
I graduated from Edinburgh University with a 1st in Computer Science (Honours). I took Physics as an outside course during my first two years and still have an interest in the subject. In my final year I was awarded the prize for highest performer in the BSc/BEng Computer Science degree. My final year project involved writing a distributed raytracer using web technologies. Photon mapping was used to simulate global illumination and caustics. In my final year the modules I chose to study were:

- Advances in Programming Languages
- Computer Algebra
- Computational Complexity
- Computer Graphics
- Distributed Systems
- Formal Programming Language Semantics
- Modelling and Simulation
- Visualisation

Bo'ness Academy (1995 - 2000)
During school I studied for 5 Highers and won the award for Junior Dux as well as the subject prizes for Maths and Physics. In my year of studying for my Highers I obtained four grade As and one grade B.

Other Achievements

In 2001 I worked as part of a team which came third in the Barclays Capital national programming competition. The team consisted of four undergraduate students selected to represent the university.

Skills and Interests

I have worked with and have been interested in computers for years. I have over 10 years experience with C/C++ and 6 years with Java. I have used many other languages to a lesser degree including C#, Perl, Python, ML, and Ruby. I have used these languages extensively for work as well as for personal projects. I have a keen interest in computer graphics, fractals, simulation, and visualisation which I explore in my free time. This interest has brought me to learn industry standard APIs such as OpenGL and SDL. I have used Windows, Linux, and Mac OS X at home and developed on all three. I have configured networks and set up various common services on all of the mentioned operating systems. I like getting outdoors for walks and cycles whenever I get the chance and I enjoy skiing.