Calum Gilchrist

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Education

BSc Computer Science at Heriot Watt University, Edinburgh, 2014.

Received two Certificates of Merit. Currently on track to receive a first class degree.

Three courses of note:

Database Management Systems (DBMS)
Design and implementation of a database for farmers to keep track of their livestock and income. Entity Relationship diagrams were used to design the table layout and MySQL was used as the DBMS.

Software Engineering
One of two courses that make up the Group Project component of third year. Discusses *source control*, *The MVC Pattern* and other aspects of software engineering. This year the project is to deliver a web application for managing sports events. My team are using Ruby on Rails and the project is still on going.

Data Structures and Algorithms (DSA)
DSA was an introduction to a variety of searching and sorting algorithms, such as Quicksort and Binary Search and how they can be compared. This involved deriving the complexity of different algorithms and actually implementing some of the algorithms in coursework.

Advanced Highers: Physics [B], Mathematics [B]

Highers: Computer Science [A], Technological Studies [A], Chemistry [A], English [B]

Skills Profile

Developed a small photo gallery in Ruby on Rails for a personal photography portfolio.

Developed a HTML5 web game in CoffeeScript for a 48 hour game competition.

Worked in a three man team in the creation of a 3D First Person Shooter for the 7 Day First Person Shooter competition.

Have designed, developed and hosted several iterations of a personal website and projects on varying servers and hosting platforms.

Always interested in using new technologies and techniques. Try to implement at least one unfamiliar principle in all personal projects and activities.

Worked as an events photographer for the Hippodrome Monster Movie Day, The JRs Charity Concert and for Grangemouth Rugby Football Club.

Technical Skills

Maintain a collection of Debian and Arch Linux servers for personal web hosting and other services.

Configuration of Apache and nginx web servers.

Maintain MySQL servers for development and self hosting of web applications.

Used C to modify compilers and interpreters in Programming Languages module at university.

Experience with Unit Testing, primarily JUnit.

Application development with C, C++, Java and Python programming languages.

Use of Bash, Python and Ruby for utility scripts on Linux systems.

Worked on several small games using OpenGL, JMonkey, LibGDX and other game libraries.

Worked in a two man team to develop a Java game in 72 hours for the 22nd Ludum Dare competition.

Used the git *version control system* in collaborative projects and all personal projects.

Familiar with web standards such as HTML5, CSS3 and JS through development of personal websites and projects.

Developed a lightbox for a photo gallery using the JQuery library.

Produced static websites for a small events company and for a local event.

Additional Information

Attend monthly meetings at Edinburgh Tech Meetup.

Member of Falkirk Linux User Group for 3 years.

Delivered a talk on Open Source Photography Software at the Falkirk Linux User Group.

Interested in Amateur Digital Photography.

Use of Adobe Photoshop for image editing and web design.

Developed and photographed all the headshots used in the Graeme High School 2010 Year Book.

Played for Grangemouth RFC for 3 years as a winger.

Assisted in setting up and running live video for a small Battle of the Bands.

Last updated: February 17, 2013