# Calum Gilchrist

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## Education

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

**Dissertation** Currently working on moving an Android Application for a speech based tour guide application and map tool to using OpenStreetMap and Google Voice over proprietary, smaller, datasets developed at the University.

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.

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

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

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

## Employment

**DevOps Engineer** at *Cloudreach Limited*, May 2013 - Present
Mixed role dealing with customers for Google Apps and *Amazon Web Services* (**AWS**) platforms. Troubleshooting and configuration of different scaled AWS and Google Apps environments for a variety of customers.

## Skills Profile

Helped develop a prototype Ruby on Rails application for ScranClan.com, a startup created during Startup Weekend, Glasgow 2013.

Use of a variety of AWS systems and tools for troubleshooting and configuration of small to medium AWS application stacks.

Use of Agile practices in development for Cloudreach's monitoring platform.

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.

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

## Technical Skills

Use of Debian and Red Hat style Linux distributions as part of internship and in personal projects.

Configuration and troubleshooting experience for various web platforms, including Apache, Nginx, IIS, MSSQL and MySQL servers as part of role at Cloudreach

Earned the AWS Technical Professional Accreditation, which outlines the basics of the AWS services.

Programming with Ruby and Google Apps Script for applications at Cloudreach Limited.

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 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 personal projects and as part of development work at Cloudreach Limited.

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: November 4, 2013