Calum Gilchrist

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Education

BSc Computer Science with Honours of the First Class at Heriot Watt University, Edinburgh, 2014.

Dissertation *The Effect of using Alternate Name Generation in Geographic Information Systems.* Analysed a variety of techniques to better aid the precision of a spoken word navigation system in identifying named entities from the Open Street Map dataset.

Two courses of note:

Distributed and Parallel Technologies
Exposure to a variety of different parallel programming approaches. Mainly through languages and libraries such as OpenCL and Haskell.

Software Engineering
A 6 month group project to deliver a tournament organisation application. Implemented using Ruby on Rails.

Received three Certificates of Merit.

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

Member of the operations team in dealing with Google Apps and *Amazon Web Service* (**AWS**) platforms for a wide variety of customers. Experience gained while working at Cloudreach:

Earned the AWS Certified Solutions Architect - Associate Level, August 2014.

Configuration and troubleshooting experience for a many different Linux and Windows based applications and services.

Maintenance and troubleshooting of highly available applications using various AWS and third party technologies.

Programming with Ruby and Google Apps Script for in-house applications such as the travel application form.

Development and deployment of monitoring applications using Chef and Splunk.

Integrated Cloudwatch Metrics with Splunk using CloudFormation, Ruby ERB Templates, SQS and a Ruby client.

Skills Profile

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

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

Won first place as part of a team in the Fourth Glasgow Future City Hackathon, 2014, for a pothole detection and analysis application for use by Glasgow City Council.

Won "Most Implemented Hack" at Cyclehack 2014 for a handlebar mounted navigation system, intelligent horn and indicator package for cyclists.

Used vanilla JS for UX and to interface with a Symphony backed chat client for the Web Applications course at University.

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

Technical Skills

Have used Arch Linux, Debian, Redhat Enterprise Linux and their derivatives for both professional and personal use

Modified and written compilers and interpreters in a Programming Languages module at University.

Some experience with Unit Testing, primarily with RSpec in RoR.

Application development with Java, Ruby and Python programming languages.

Use the git version control management system wherever possible

Developed a crowd sourcing application for alternative names for use in dissertation project using Sinatra and MongoDB

Used Bash and Python scripts for server management and task automation

Familiar with Vagrant for use in creating development environments as part of work at Cloudreach

Manage personal machines using Salt Stack to facilitate configuration management

Additional Information

Attend monthly meetings at Edinburgh Tech Meetup as well as other Edinburgh based meetups

Presented a talk on alternatives to Bitcoin at the Falkirk Linux User Group, April 2014.

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

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

Last updated: August 25, 2014