

# Harry Garrood

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## Employment

### Halarose Ltd

#### Software developer

October 2011 - September 2013

Halarose's main product is a large (800 thousand lines of code) and complex piece of software which is used by local authorities for managing sensitive electoral data. I mainly worked on its development team. This included designing and adding features, fixing bugs, and refactoring. I also took responsibility for the migration to, and continued use of, a new bug tracking system (Redmine). This involved creating an automated self-verifying backup system as well as a plugin which enabled storage of release notes alongside individual issues. The plugin is now open-source and used by a number of other organisations. Additionally, I created a web interface to the company's customer database, and provided some customer-facing technical support.

## Proficiencies

- Object-oriented programming (Ruby, C#)
- Functional programming (Haskell)
- Version control (SVN and Git)
- Design and UX
- Software testing (both manual and automated)
- Web technologies: HTTP, HTML, CSS, JavaScript, Ruby on Rails
- Unix-like operating systems; currently my OS of choice is Ubuntu Linux

## Interests

- Winning team in the 2013 Game Development Society GameJam (an event in which teams must produce a playable game in one weekend).
- Won the Edinburgh University Functional Programming Competition with a program which renders a zoom sequence of the Mandelbrot set.
- Numerous other free-time programming projects: for example, a graphical noughts-and-crosses game, an instant messaging client and server, and a web-based multiplayer version of the classic helicopter game.
- Proficient German speaker: in 2010, I spent two weeks in a work experience exchange at Knorr-Bremse in Munich. Knorr-Bremse is a company which designs and manufactures brakes for large vehicles. While I was there, I built a Fourier analysis tool in Excel.
- Road cycling: in 2011, I took a week off to cycle between some of the lakes and mountains in Lombardia, Italy, covering around 550km over 6 days.
- Self-taught guitarist and bassist. I played in a number of concerts at school.
- Member of the Edinburgh University Music Society; I sing in their choir, and play in their hockey team.
- Spent a month travelling in China with a couple of friends, visiting Beijing, Xi'an, and Shanghai. Through school I have also been hiking in Texas and Alaska and undertaken a number of trips in Europe for languages, history, and skiing.

## Education

### University

Studying Computer Science (1st year) at Edinburgh University.

### A levels

Maths, Further Maths	AA
Physics	A*
German (Pre-U)	D2 <sup>1</sup>
Chemistry (AS)	A

<sup>1</sup>In Pre-U grades, the 'D' stands for Distinction; a D2 is marginally better than an A\*.

### GCSEs

8 A\*s, including Maths and three sciences, one A, and one B.