

# Ben Banerjee-Richards

Software Developer

[github.com/BenBanerjeeRichards](https://github.com/BenBanerjeeRichards)

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## Education

BSc Computer Science

2016 - 2020

University of Edinburgh

Scottish Advanced Higher  
Scottish Higher

AAA  
AAAAA

**Skills** Java, Groovy, JavaScript, AngularJS, C#, Git, Linux, Python

## Professional Experience

Kyloe Partners, Kirkwall, Scotland

June – September 2017

*Intern*

Grails, Angularjs, AWS, Liquidbase, Git

- Developed an internal tool to greatly improve efficiency of a process that previously used multiple spreadsheets
- Worked with another intern on both the server side (Grails 3 and MySQL) and the frontend SPA in Angularjs and bootstrap.
- Setup deployment process to AWS Beanstalk and RDS, uses the Liquidbase grails plugin to handle database migrations

Kyloe Partners, Kirkwall, Scotland

June – August 2016

*Intern*

Grails, Groovy, Java, Git

- Designed and implemented a RESTful API to provide access to a large range of recruitment data, secured by a custom Spring Security based authentication system.
- Built administrative interfaces for both the end user and for internal company use to deploy new instances to clients, using Angular 2 frontend.
- Made use of version control (git), unit and functional testing (Spock) and continuous integration (Cloudbees and Jenkins).

## Personal Projects

FIT File Decoder

Groovy

- Decodes files produced by many activity tracking devices, providing access to information such as position and heartrate.
- Parses most real world files which often deviate from the specification.
- Wrote and published detailed documentation clearly explaining how to use the library.

File System

C, Linux

- Simple file system implementation that works on disk, in memory and in a file.
- Hierarchal system that supports a full directory structure and disk block allocation algorithm that adjusts depending on the size of used disk space.
- Made use of Valgrind and GDB to diagnose issues. Greatly improved my debugging skills.

Hidden Markov Model Part of Speech Tagger

JavaScript, NodeJS

- Tags sentences with part of speech tags through an API
- Generates probability tables from the Brown corpus