

# Curriculum Vitae

## Duncan Eastoe

- First class BSc Honours in Computing Science, with multiple awards
- Strong understanding of Java and Object Oriented development
- Great attention to detail and interest in designing robust, well tested software
- A passion for scripting and improving my development environment



**Address:** Flat 4, Weavers Court, Osborne Road, Wokingham, RG40 1TL, UK

**Telephone:** (+44) 7746 815 226

**E-mail:** [duncaneastoe@gmail.com](mailto:duncaneastoe@gmail.com)

### Work History

#### Software Engineer - Cisco Systems

*August - October 2014*

- Worked on the team maintaining the FIB component of Cisco Express Forwarding on IOS XR
- I improved a Python regression testing framework, used to increase product quality:
  - Add further coverage with new test cases for PIM and IGMP
  - Implement functionality for new types of packet tests, using Scapy, within the framework

#### Software Engineer Intern - Cisco Systems, contracted by Adecco

*June - August 2013*

- Worked as part of the Flexible NetFlow team
- Defined a Java FNF API for Cisco onePK
- Built a modular, distributed Java application to perform network monitoring and alerting utilising onePK, Apache Thrift and Google Cloud Messaging

#### Lab Demonstrator - University of Stirling

I demonstrated on various Computing Science modules during the 3rd and 4th years of my degree, providing guidance to those taking the modules.

### Education

#### University of Stirling - BSc Hons Computing Science, 1st class, 2010-2014

- Best final year project, 2014
- Kana Prize for Software Engineering Winner, 2013
- Best 3rd year CS student, 2013
- Best 2nd year CS student (joint), 2012
- Best 1st year CS student, 2011

#### Dissertation - "Binder"

For my dissertation I contributed to an existing research project, Binder. The Binder system allows for aggregation of bandwidth from disparate Internet gateways in a community wireless mesh network, providing end users with vastly improved access to the Internet. My project involved C, Java, Ant, Bash, Git, QEMU, VirtualBox, OpenWrt and large amounts of network configuration.

The key outcomes of my project were:

- Improvement and upstreaming of an extension to the Linux kernel MultiPath TCP implementation
- Linux Netfilter module for stripping IPv4 Options
- Java implementation of an existing C++ API for the D-ITG network measurement tool
- A Java application for controlling a testbed of D-ITG instances
- Designing and deploying wireless mesh testbeds for measuring the effects of Binder

I received a **1st grade** in all Computing Science modules, with key modules including:

- Networking
- Relational databases
- Software Engineering
- Algorithms & data structures
- Concurrent & distributed systems
- Security
- Web services
- Telecommunications

#### **Lancaster Royal Grammar School, 2003-2010**

- WG Eaton Prize for IT winner, 2009 & 2010
- 3 A grade A-Levels: Computing, Geography, Design & Technology: Product Design
- 5 A\* grade and 4 A grade GCSEs, including grade A Maths and English

#### **Skills**

- Java
- Linux
- Git
- Unit testing (JUnit)
- Bash
- Object Oriented design

Furthermore, I have good foundation experience in:

- C
- Android development
- Test driven development
- Python
- MySQL
- Agile methods
- Ant
- PHP
- SVN

#### **Further Experience**

- Released various applications and scripts as open-source software on [github.com/duncanje](https://github.com/duncanje) including an application on the Play Store.
- Over 5 years building and managing a Drupal powered website, [c-f-r.org.uk](http://c-f-r.org.uk).

#### **Personal Interests**

My personal interests are cycling and running which are very important to me. They provide an active release for stress while also keeping me fit, allowing me to work to my full potential. I particularly enjoy riding simple bikes, those without suspension and single-speed/fixed gear drivetrains.

#### **Achievements**

- Attained Duke of Edinburgh Bronze, Silver and Gold awards

**References available upon request**