

# Marshall Bradley

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I am an accomplished Computer Science student with wide-ranging interests and experience across a variety of related fields, who maintains a particular interest in software engineering, low-level computer design and computer security. Aspiring to combine academic success and experience in a demanding role within the technology industry.

## Education

2012 – Present

Master of Informatics (5th Year)  
Edinburgh University  
Above required average for a First Class degree  
Extreme Computing (Hadoop) – **92%**  
Computer Architecture – **93%**  
Computer Security – **90%**  
Object Oriented Programming (Java) – **91%**  
Focus on: Software Eng., Hardware, Security

2007 – 2012

Westminster School  
4 A-levels      Maths (**A\***)  
                        Further Maths (**A\***)  
                        Biology (**A**)  
                        German (**A**)  
11 GCSEs      Grades **A\* - A**

## Skills

- Languages: Java, C++, Python, C, PHP, CSS, Gradle, Prolog, Haskell, JavaScript, Lua, Assembly, Verilog
- Applications: Atlassian JIRA, Various IDEs (IntelliJ/Android Studio, Eclipse, Xilinx ISE), MATLAB, Microsoft Office Suite, Adobe Photoshop
- Systems: Jenkins CI, Windows 7/Vista/XP, Linux, Mac OS X

## Experience

June 2016 – Current

Intern

Corero Network Security

- Worked extensively on Corero's main product, SmartWall, the market leading inline DDoS threat-prevention system
- Amongst other tasks, developed an entirely new feature primarily in Java (SDK 8), allowing a user to create snapshots of the current defence configuration, which could then be restored or exported for distribution between devices
- Performed continual unit-testing using the PowerMockito framework, aiming for 100% line-coverage in all new classes written, along with extensive use of Javadoc
- Participated in a SCRUM, including morning stand-up, regular code-reviews and 3-week sprints
- Played an active role during the entirety of a the development lifecycle, from backlog analysis to producing shippable code
- Greatly improved the required interpersonal skills for working effectively on a driven development team of 6-7 core members
- Acquainted myself with many new tools and technologies, such as NCS, Scons, vSphere and Mercurial

*September 2015 – May 2016*

*Tutor*

*University of Edinburgh*

- Tutored/demonstrated for a range of 1<sup>st</sup>/2<sup>nd</sup> year undergraduate computer science courses, including Java, introductory C and computer systems
- Developed key time management and presentation skills, both when independently preparing for tutorials and while helping tutees work through their assigned handouts
- Revised and strengthened personal understanding of key computer science concepts

*June 2015 – August 2015*

*Software Test Engineer*

*University of Washington*

- Helped develop and test ODK's (opendatakit.org) suite of Android apps, a project run to provide open-source data collection tools to the developing world
- Was a key member of the core team, working on the project's critical path, both in migrating the code-base from Google Code to GitHub and porting the build-script to Gradle (from Ant) as part of a complete migration from Eclipse to Android Studio
- Set up an Android UI testing framework (UiAutomator), including research to identify the best technology, implementing it across multiple projects and writing scripts to automate testing of UI elements
- Implemented a dependency checker, to ensure that a user had installed the prerequisite apps on their device for each specific tool, displaying an error message if not

*2013 – 2015*

*Web Developer*

*London School of Econ.*

- Created and maintained two WordPress powered websites for LSE London, which involved JavaScript, PHP, HTML and CSS coding
- Rehired after the initial site was completed to create a second site for a new project
- Communicated with clients over the unique/differing needs of the two sites
- Continued maintaining sites after they went live, gaining valuable experience in the management of a website's back-end
- Received "universal praise" for the websites at the launch event according to LSE London

## **Additional Information**

Dual UK/US citizenship.  
Full, clean driving license.

## **Interests**

Coding mods/plugins

Computer hardware; having taken apart and reassembled (or at least attempted to) most of my home computers, I've also built multiple custom PCs from the ground up for family and friends.

Sports – taking part in a range of sports including rock climbing, squash and skiing.

Active member of the Edinburgh University Mountaineering Club.

## **References**

Available on request.