

Will Sutherland

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Education

- 2016 - 2017 **University of Cambridge** — Advanced Computer Science MPhil, Distinction
- Modules: Computer Security, Network Architectures, Affective Computing and Social & Technological Network Data Analytics
 - Thesis: Security and Cybercrime
- 2013 - 2016 **University of Sheffield** — Computer Science BSc, 1st Class Honours
- 2005 - 2012 **The Perse School, Cambridge** — A2: 3 A*; AS: 5 A; GCSE: 10 (8 A*s)

Work Experience

- Summer 2016 **Summer Technology Analyst — Barclays**, Canary Wharf, London, UK (9 weeks)
- Designed, implemented and deployed to production an application to book loan deposits using ASP.NET and Angular.js. Now used daily by equity derivative traders.
 - Contributed to other applications on the platform using agile methodologies.
- Summer 2015 **Intern — Hewlett-Packard, HP Autonomy**, Cambridge, UK (10 weeks)
- Researched server scaling and created a load monitor for HP's Haven On Demand servers, sending data to a graphing system using Node.js, Graphite and RabbitMQ.
 - Made contributions to open source software.
- Summer 2014 **Intern — Hewlett-Packard, HP Autonomy**, Cambridge, UK (10 weeks)
- Created an application to illustrate HP's Big Data search capabilities. Well received by HP Software's Executive VP and awarded "recognised@HP" commendation.
 - Created an API & CMS to track updates for HP IDOL servers using Node.js and MySQL.
 - Gained experience working with an agile software approach.
- Summer 2013 **Front of House — The Hole in the Wall Restaurant**, Lt. Wilbraham, UK

Technical Skills

- Programming - Proficient: Python & JavaScript (Node.js, Backbone.js)
 - Intermediate: Java
- Tools - Git, SQL, Linux, Windows, Mac OSX

Projects

- 2016 **Crossy Roadbot** — Undergraduate Dissertation
- Created a Computer Vision robot to play the iPad game Crossy Road, written in Python using OpenCV and a Raspberry Pi, and tested by writing a Swift iOS app. Achieved a very high first class mark and was awarded the Floow Prize for Most Innovative Dissertation.

- 2015 **Slack Connect 4 Bot** — github.com/wgpsutherland/slack-connect-4-bot
Created an open source Node.js bot for playing Connect 4 on the team collaboration tool, Slack. Trended on Github (receiving over 6,000 page views and 81 stars), featured on TheNextWeb.com, and successful on ProductHunt.com.
- 2015 **SideRank**
Led team to create an application for the company Sideways6, written using Ruby on Rails. Chosen as the best application in the year by The University Of Sheffield.
- 2014 - 2015 **Gradients** — gradients.herokuapp.com
Created a full stack web application used by classmates to store grades and monitor progress, written with Backbone.js, Node.js and PostgreSQL.
- Many other projects and open source contributions on github.com/wgpsutherland

Honours and Achievements

University of Cambridge

- 2016 - Newton College Masters Studentship
- Computer Laboratory Advanced Computer Science MPhil Scholarship

University of Sheffield

- 2016 - Mappin Medal for Greatest Distinction Shown by a Student in Final Year (top of the year)
- The Flook Prize for Most Innovative Dissertation at Level 3
- 2015 - BCS Eliot Chiat Prize for Best Overall Performance at Level 2 (top of the year)
- IBM Software Hut Prize & Client Software Hut Prize
- 2014 - Wiley & Sons Prize for Best Overall Performance at Level 1 (top of the year)
- epiGenesys Scholarship for Outstanding Academic Achievement
- Global Engineering Challenge: Best Overall Solution

Extracurricular

- 2016 Barclays RISE Hackathon
- 2015 Cisco IoE Challenge Hackathon - 1 of 4 students chosen to represent Sheffield University
- 2013 - 2016 Sheffield University Men's Hockey Club
- 2013 - 2016 Sheffield Computer Science Football Team
- 2013 - 2015 Staff Student Liaison Committee — Computer Science, The University Of Sheffield
Elected as 1st and 2nd year representative.
- 2010 & 2011 Sweden & Ladakh — Perse Exploration Society
2 weeks canoeing through Sweden, culminating in a 24 hour survival exercise. 2 weeks volunteering in Ladakh & 2 weeks summiting *Stok Kangri* (6,100m) in the Himalayas.
- 2006 - 2012 Pastoral Prefect & Senior Pupil Librarian — The Perse School