# Will Sutherland

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## Education

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| 2016 - 2017 | **University of Cambridge** — Advanced Computer Science MPhil |

- Modules: Computer Security, Network Architectures, Affective Computing and Social & Technological Network Data Analytics
- Thesis: Security and Cybercrime

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| 2013 - 2016 | **University of Sheffield** — Computer Science BSc, 1st Class Honours |

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| 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

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| Programming | - Proficient: Python & JavaScript (Node.js, Backbone.js)<br>- 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 |
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| | 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** |
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| | 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 |
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| | 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 |
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| | - 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) |
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| | - The Floow 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 |
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| 2015 | Cisco IoE Challenge Hackathon - 1 of 4 students chosen to represent Sheffield University |

| 2013 - 2016 | Sheffield University Men's Hockey Club |
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| 2013 - 2016 | Sheffield Computer Science Football Team |

| 2013 - 2015 | Staff Student Liaison Committee — Computer Science, The University Of Sheffield |
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| | Elected as 1st and 2nd year representative. |

| 2010 & 2011 | Sweden & Ladakh — Perse Exploration Society |
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| | 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 |
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