

# Zachary Forman

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## Education

- **Adelaide University**  
*Bachelor of Engineering (Honours) (Software Engineering)* 2013 – Present  
Expected Graduation: November 2016
  - GPA: 6.6/7.0
  - Recipient of Adelaide University Undergraduate Scholarship for outstanding academic merit.

## Work Experience

- **Google Sydney** **Chrome**  
*Software Engineering Intern* November 2015 – February 2016
  - Worked on Chrome build determinism, significantly increasing the set of conditions under which the build remained deterministic.
  - Designed and implemented a tool for investigating Chrome builds.
- **Google Sydney** **Drive**  
*Software Engineering Intern* November 2014 – February 2015
  - Designed and implemented an Android application.
  - Adapted a pretrained neural network for recognition of a subset of images, with 94% accuracy.
  - Worked independently to write > 5000 lines of high quality code.
- **School of Computer Science** **Adelaide University**  
*Casual Teaching* August 2014 – present
  - Taught first year students fundamentals of CS and programming in tutorials, practicals and workshops.
- **AutoID Labs** **Adelaide**  
*Summer Intern* December 2013 – March 2014
  - Built and helped design a C++ stream processor that interfaced with pre-existing middleware and machine learning algorithms to generate a stream of predictions.
  - Built a visual C# application to interface with RFID readers and provide a stream of tag reports.

## Leadership

- **President of Computer Science Club**  
*Adelaide University* November 2013 – November 2015
  - Promoted a healthier club environment, which contributed to a more diverse club than in past years.
  - Encouraged a culture of excellence within the club, which contributed to a significant number of club members (5+) getting internships at leading tech companies, including Google and Microsoft.

## Core Technical Skills

Language	Years Experience	Technology	Years Experience
C++	3.5	SVN	4
C	3	L <sup>A</sup> T <sub>E</sub> X	3
Bash	3	Git	2
Java	2.5	Android	0.5

## Miscellaneous

- Competitions
  - Google Code Jam 2013-2015 (Qualified)
  - ACM 2015 (2nd place on site)
  - ACM 2014 (3rd place on site)
  - ACM 2013
- Github & Personal Projects [github.com/ZacharyForman](https://github.com/ZacharyForman)
  - [Binary Matcher](#)
    - \* Tool for analyzing binaries, and potentially doing clever binary diffing.
    - \* Learned about ELF file format and how binaries are run on Linux.
  - [net](#)
    - \* C++ wrapper of BSD sockets, and several other utilities for code that interacts with the Internet
    - \* Learned more about BSD sockets, and experimented with API design.
  - [cpu](#)
    - \* Instruction architecture simulator for the DLX architecture.
    - \* Improved my C programming ability and consolidated my knowledge of DLX.

## Selected key courses

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|--|------------------|
| • Object Oriented Programming (2013 s2)                  | High Distinction |
| • Algorithm Design and Data Structures (2013 s2)         | High Distinction |
| • Systems Programming in C and C++ (2013 s2)             | High Distinction |
| • Computer Networks and Applications (2014 s1)           | High Distinction |
| • Artificial Intelligence (2014 s1)                      | High Distinction |
| • Operating Systems (2014 s2)                            | High Distinction |
| • Event Driven Computing (2014 s2)                       | High Distinction |
| • Computer Vision (2015 s1)                              | Distinction      |
| • Distributed Systems (2015 s2)                          | Distinction      |
| • Evolutionary Computation (2015 s2)                     | High Distinction |
| • Introduction to Statistical Machine Learning (2015 s2) | High Distinction |
| • Distributed Databases and Data Mining (2016 s1)        | Pending          |
| • Mining Big Data (2016 s2)                              | Pending          |