

Zachary Forman

51 Kintore Avenue • Prospect 5082 • Adelaide, South Australia
+61 466 020 412 • au.zachary.forman@gmail.com

Work Experience

- **Google Sydney** **Chrome**
Software Engineering Intern *November 2015 – February 2016*
 - Improved determinism of Chrome build process significantly, reducing the number of non-deterministic outputs on Linux by tens of thousands.
 - Designed and implemented an experimental framework in javascript for learning about the Chrome build.
- **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, producing > 5000 lines of high quality code.
- **Computer Science** **Adelaide University**
Casual Teaching *August 2014 – present*
 - Taught first year students fundamentals of Computer Science and programming.
 - Ran practicals and workshops for first year courses.
 - Took tutorials for a first year algorithms and data structures course.
- **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.
 - Reference: Dr. Damith Ranasinghe (damith.ranasinghe@adelaide.edu.au)

Leadership

- **President of Computer Science Club**
Adelaide University *November 2013 – November 2015*
 - Improved relationship with the Computer Science faculty, leading to increased involvement during O-week and a large recruitment of first year students.
 - 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.
- **Peer Mentor**
Adelaide University *2014 – Present*
 - Assisting new students in transitioning to University.
 - Running introductory tours and lectures for incoming students.
 - Outreach events to high schools.

Core Technical Skills

Language	Years Experience	Technology	Years Experience
C++	3.5	SVN	4
C	3	Regular Expressions	3
Java	2.5	L ^A T _E X	3
Go	0.5	Git	2
Python	0.75	Android	0.5

Education

- **Adelaide University**

Bachelor of Engineering (Honours) (Software Engineering)

2013 – Present

Expected Graduation: November 2016

- GPA: 6.6/7.0
- Selected key courses:
 - * Object Oriented Programming (2013 s1) 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
- Recipient of Adelaide University Undergraduate Scholarship for outstanding academic merit.

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

<https://www.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.