

## Education

- **University of Adelaide** Adelaide, South Australia  
*Bachelor of Engineering (Honours)(Software)* 2015 - Present
  - Expected Completion: November 2018
  - GPA: 5.875 / 7

## Experience

- **University of Adelaide** Adelaide, South Australia  
*Computer Science Learning Centre Tutor* 2016 - Present
  - Casual one-on-one tutoring targeted at first-year students

## Skills

Language	Years	Technology	Years
Java	2	Android	2
Python	2	Git	2
C++	1.5	SVN	1
HTML/CSS/JS	4	Node.js	0.5

## Personal Projects

- **Toffeed (<https://github.com/JakeLane/Toffeed>)** Android (Java)  
*Wrapper app for Facebook's mobile site*
  - Provides enhancements and a (somewhat) native app feel
  - Utilises injected JavaScript to manipulate the DOM and JavaScript Interfaces to obtain data directly from the site
  - Over 25000 downloads on Google Play
- **WolframAlpha Reddit Bot (<https://github.com/JakeLane/WolframAlpha-Reddit-Bot>)** Python  
*Reddit Bot using Wolfram—Alpha API*
  - Reddit bot written in Python using PRAW that replies with data from the WolframAlpha API when summoned or a direct link is posted
- **RapidTools (<https://github.com/JakeLane/RapidTools>)** Java  
*Bukkit server plugin*
  - A server plugin that I developed for use on the Rapid Minecraft server
  - Served many functions, which reduced the amount of plugins required (thus improving server performance)

- Interfaced with a website that I also built for the server

## • Bell Warning System

PHP and Python

### • *Automatic Bell system*

- Major project for Year 12 Electronics
- A (school) bell system that rings based on a timetable
- Utilised a Raspberry Pi and three motorbike horns
- User interface was programmed in PHP and a Python service handled the relay signals

## Miscellaneous

### • Volunteering

- University of Adelaide
  - \* Working with secondary students to teach programming fundamentals
  - \* Computer Science Club of Adelaide University events
- Lyndoch Tennis Club
  - \* Current Webmaster

### • Hobbies

- Hobby electronics (i.e. Raspberry Pi)
- Swimming
  - \* Former State Level Competitive Swimmer
- Tennis

## Relevant Courses

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|--|------------------|
| • Algorithm Design & Data Structures     | Distinction      |
| • Object Oriented Programming            | Distinction      |
| • Electrical & Electronic Engineering IB | High Distinction |
| • Statistical Practice I                 | High Distinction |
| • Web & Database Computing               | Distinction      |
| • Artificial Intelligence                | Pending          |
| • Computer Networks & Applications       | Pending          |