Jake Lane

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EXPERIENCE

- **Dolby Australia** — Sydney, New South Wales
  Intern Engineer — *Nov 2017 — Feb 2018*
  - Developed Android application in Kotlin utilising reactive and MVVM patterns.
  - Set-up Continuous Integration and Continuous Deployment for Android application development.

- **Alcidion Corp.** — Wayville, South Australia
  Software Engineering Intern — *Nov 2016 — Feb 2017, Jul 2017 — Jul 2017*
  - Worked on a Miya product in the product development team
  - Developed an interactive editor webapp with Typescript, React, Redux, React DnD
    * Implemented compiling to and from Smartdown (a markup language) with ASTs, static analysis, and recursive descent parsing
  - Developed a React Redux webapp to display data from Team Foundation Server in an interactive format

- **School of Computer Science, University of Adelaide** — Adelaide, South Australia
  Teacher's Assistant — *March 2017 — Present*
  - Taught first and second year students in practicals
  - Courses: Algorithm Design & Data Structures, Object Oriented Programming, and Web & Database
  - Previously tutored one-on-one for the Computer Science Learning Centre in 2016

EDUCATION

- **University of Adelaide** — Adelaide, South Australia
  Bachelor of Engineering (Honours) (Software) — *2015 — Present*
  - Expected Completion: Nov 2018
  - GPA: 6 / 7

PROJECTS

- **Toffeed**: A wrapper app for Facebook's mobile site that 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 50,000 downloads on Google Play.

- **Wolfram|Alpha Reddit Bot**: A Reddit bot written in Python using PRAW that replies with data from the Wolfram|Alpha API when summoned or a direct link is posted.

- **RapidTools**: A custom Minecraft server plugin written in Java. It served many functions, which reduced the amount of plugins required (thus improving server performance). Interacted with an API to display output on the website.

SKILLS

- **Languages**: C++, Java, Kotlin, HTML/CSS/JS, TypeScript, Python, C, Ruby

- **Technologies**: Android, Git, ReactJS, NodeJS, Rails, Linux, SQL, Raspberry Pi

RELEVANT COURSES

Course	Grade
Engineering Software as Services I	HD
Engineering Software as Services II	D
Computer Graphics	D
Event Driven Computing	HD
Mining Big Data	HD
Algorithm & Data Structure Analysis	D
Problem Solving & Software Development	HD
Artificial Intelligence	D
Advanced Programming Paradigms	D
Project Management II	HD

MISCELLANEOUS

- Computer Science Club Committee (2017)

- Sports
  - Former State Level Competitive Swimmer
  - Tennis