

# Software Engineer

Alex Cummaudo

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## Summary

Having just finished a six month contract as an iOS and web developer at SEEK.com.au, Australia's largest jobseeker and careers website, I am completing my final year in Computer Science at Swinburne University of Technology, where I also teach programming units to first-year students.

## Skills

### Core Strengths

Web Application Development

Mobile Application Development

RESTful API Development

Concurrent Program Design

Project Management

Reporting

UI/UX Design

Prototyping

Excellent Communication Skills

Researching

Teaching

### Technical Skills

Objective-C

Swift

Node.js

JavaScript

CoffeeScript

DOM

AngularJS

Ruby on Rails

Bootstrap

SCSS

LESS

CSS3

L<sup>A</sup>T<sub>E</sub>X

C#

UIKit

.NET

C

C++

Pascal

### Software

Git

AWS

Docker

Apache2

MySQL

PostgreSQL

MongoDB

Nginx

Xcode

Atom

Xamarin

Coda 2

Trello

Pixelmator

Lucidchart

## Experience

### iOS Developer

Aug 2015–Feb 2016

SEEK Ltd., Melbourne

SEEK is Australia's largest jobs, employment, career and recruitment website.

- > Development on the SEEK jobseeker iPhone and iPad app.
- > Integrated a prompt for app feedback review, which improved the App Store rating from six 1 star reviews to 33 reviews averaging 4.5 stars on launch-day alone.
- > Added personal recommendations to the jobseeker app, providing thousands of personalised jobs to candidates on their mobiles.
- > Experience with continuous deployment and test-driven development environments.

### Software Engineer

Aug 2014–Aug 2015

Swinburne NICTA Software Innovation Lab (SSIL), Hawthorn

SSIL delivers research-driven high-impact software solutions and is partnered with NICTA.

- > Lead drone-flight software project that automates drone flights.
- > Developed fleet visualiser prototype integrated using Google Maps SDK used for bus fleets in Kuala Lumpur.
- > Created a web-based IDE used for rapid prototyping software to create Android applications using a custom DSL.
- > Development with bleeding-edge technology stacks and rapid-prototyping environment.

### Teaching Assistant

Mar 2014–Present

Swinburne University of Technology, Hawthorn

Teaching first-year introductory programming and object-oriented programming units.

- > Engagingly teaching students to learn foundation programming concepts
- > Group discussion and running group exercises
- > Preparing students for future programming and problem-solving units
- > Helping students through basic Pascal, C and C++ and giving one-to-one feedback

**Web Application Developer (Pro Brono)****Winter Break–2014**

Swinburne University of Technology, Hawthorn

Development of a lightweight modern Learning Management System, *Doubtfire*.

- > Building a large-scale web application utilised in tutoring position for student progress tracking (<http://github.com/doubtfire-lms>)
- > Developing front-end development with Bootstrap and AngularJS
- > Back-end development using Ruby on Rails, PostGres and Grape API

**Contract Developer****Mar 2014–Aug 2014**

LeadSoftware, Melbourne

LeadSoftware specialises in complete tracking, logistic and dispatch systems.

- > Lead UX and UI design for large-scale on-board taxi dispatch system and iOS/Android apps in development for CABiT, a Melbourne-based Taxi company
- > Strong interaction with development team to explain prototypes and mock-ups developed and provide feedback on implemented designs
- > Iterative prototype process using a mix of whiteboard, Pixelmator, Keynote and FluidUI

**Education****Bachelor of Science (Professional Software Development)****Aug 2013–Present**

Swinburne University of Technology, Hawthorn

High Distinction Average (GPA 4.0).

Perfect marks of 100 in Introductory and and Object-Oriented Programming units.

Near-perfect marks of 99 in Programming Language design and 98 in iOS Development and Usability.

**Key Disciplines:**

- > Web and iOS Application Design and Development
- > Concurrent Programming
- > Data Structure Theory
- > Development of Programming Languages
- > User Interface and Experience Design
- > Database Design and Programming

**Victorian Certificate of Education (VCE)****Feb 2010–Nov 2012**

Parade College, Bundoora

Australian Tertiary Admittance Ranking (ATAR) of 98.00 of 99.95.

**Awards****Certificate of Achievement Awards****November 2014, July 2015**

Highest Achieving Student with the highest marks in nine subjects

Awarded by Prof. John Wilson – Executive Dean, Faculty of Science, Engineering and Technology, Swinburne University.

**Certificate of Appreciation Award****1 Nov 2013**

Swinburne ICT Student Ambassador Program

Awarded by Prof. Leon Sterling – Dean, Faculty of ICT, Swinburne University.

**Vice Chancellor's Scholarship****31 Mar 2013**

On outstanding academic excellence

Awarded by Prof. Linda Kristjanson – Vice Chancellor, Swinburne University.

**Dux Award****8 Feb 2013**

On achieving excellent VCE results and attaining one of the highest ATAR scores in the college.

Awarded by Dr. Denis Moore – Principal, Parade College.

## Extra Curricular

### Open Source Software

- > On GitHub as alexcu
- > Primary developer for Doubtfire Learning Management System

### University

- > Member of the Swinburne Tinkerers Guild
- > Open Day Volunteering—discussing and advocating Swinburne degrees
- > Spokesperson for Swinburne's Faculty of Information Technology
- > Mentor for VCE students enrolled in Swinburne's Higher Education Studies within the VCE program

### Hobbies and interests

- > Orienteering, hiking and jogging
- > Antique computing
- > Casual indie game developer at *Paperbox Studios*

## Referrals

Dr. Andrew Cain  
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