



Education

UNIVERSITY OF NEW SOUTH WALES – B.SC (COMPUTER SCIENCE) – 2013-2016

I completed a B.Sc in Computer Science at the University of New South Wales in 2016. I studied a variety of areas of computer science, taking courses on databases, algorithms, AI, security, and operating systems. I also took several courses outside of computer science, mostly in linguistics and history.

MACQUARIE UNIVERSITY – GIFTED AND TALENTED PROGRAM – 2011

During high school, I took part in a gifted and talented program with Macquarie University, completing a university course on Critical Thinking with a distinction mark.

NORMANHURST BOYS HIGH SCHOOL – HSC – 2007-2012

I attended Normanhurst Boys High School from 2007–2012. For my HSC I studied Chemistry, Advanced English, Maths Extension 1, Society and Culture, and Software Design and Development.

Skills

I am experienced in Javascript, Python, C, and Java, and have knowledge of C++, Perl, Prolog, Bash, Lua, and Haskell. I have an eye for design, and can easily write HTML and CSS. I learn quickly through experience and I am good at finding my own solutions to problems and answers to questions I have during development.

Employment

FREELANCE WEB DEVELOPMENT – 2017

I am currently doing freelance development for Cabici, a website that organises information about bicycle races, using Angular 2 to build a web application for data input. I have also recently completed a project for MerlinXL on a web application in JSP to interact with XML-based settings files for their product.

Reference: Simon Martyn simon@merlinxl.com +44 01993 881343

DOLBY – TRANSCRIBER – 2016

I worked casually at Dolby as a transcriber for a research project. The work involved listening to conversations in Australian English over headphones and typing exactly what has been said as quickly as possible.

Reference: Richard Cartwright richard.cartwright@dolby.com +61 2 9101 7942

INTERSECT – CASUAL TESTER – 2015

I worked part-time at Intersect as a tester. I was involved in both writing and performing tests of user stories and collaborating with the development teams for various projects, as part of Intersect's agile development process. I also wrote and performed regression tests for several projects in the later stages of development.

Reference: Kali Waterford kali@intersect.com +61 2 8079 0526

Experience

ETYMOGRAPH – 2015-ONGOING

Etymograph is a web service designed to store word etymologies in a structured way. It was originally developed by me and four others as part of a large university project. Since then, I have been the sole developer. It is written in Python 3 using Flask, and makes use of several Javascript libraries for data visualisation. I have made major contributions to the entire web stack for this project, including the database, the backend, and the front-end.

GETFLIX REGION SWITCHER – 2015-2016

Getflix Region Switcher is a Chrome extension written in Javascript and CSS that uses the Getflix API to switch regions for that service. It is currently available on the Chrome web store. This project taught me more about rendering web pages with Javascript, and how to effectively use JQuery.

TFNSW CODEWORKS HACKATHON – FINALIST – 2014

In September of 2014, my group was a finalist in a Transport for NSW Hackathon. In 48 hours we build an Android application designed to use real-time road data to set an alarm that will wake the user up in time to deal with any unusual road congestion. I worked primarily on the design and front-end code, but also contributed to the backend. All development was done in Java and XML.

DOTS – 2014

Dots is a static web app I created. It calculates the dots-per-inch of a display given a width and height in pixels, and a diagonal in inches. This web app gave me substantially more experience in Javascript, as well as HTML and CSS.

CSESOC WEBSITE – 2014

In early 2014, I volunteered to help the UNSW Computer Science society to create a new website. I designed the entirety of the site's front-end, created almost all of the Django HTML templates, and wrote all of the CSS and Javascript. Over the course of creating this website, I taught myself Javascript.

MEKONG – 2013

My first web project was a simple CGI-based bookstore website written in Python, carried out in a software development course. While most students used a simple template such as Bootstrap when designing the front-end, I took it as an opportunity to learn web design and CSS, and wrote all the CSS myself. The back-end was a rudimentary templating engine based on Python string formatting, and was heavily functional. I achieved a nearly-perfect mark for this project.

NORMO – 2012

For my Software Design major work, I rewrote my Timetable app to work specifically with students of my high school. The app used a student's school email address to collect their timetable data from a web application and store it in the database, removing the need for manual entry of data. This project scored highest in the grade.

TIMETABLE – 2011-2013

The first major software project I had was an Android app I wrote called Timetable. It stored a high school student's timetable in a database and displayed it to them. It used an SQLite database, an XML front-end and a Java back-end. Its primary focus was on user interface design, and in creating it I learnt both basic Java and XML.

Citizenships

I am an Australian citizen by birth, and I currently hold an Australian passport. I am also a British citizen by descent, and eligible for a passport. This means I am allowed to work in Britain and the European Union without a visa.

I am eligible for Irish citizenship by descent, through my grandfather, but not currently in possession of it. This means that I will be able to work in Ireland and the European Union without a visa if I register as an Irish citizen.

I also possess Chilean citizenship by descent, and am eligible for a Chilean passport. I can work in Chile without a visa and may have fewer requirements to obtain a working visa in several South American countries.