

# Nicholas Whyte

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## Education

- **University of New South Wales** **2014-Present**  
Currently in my final year, studying Bachelor of Science (Computer Science). Distinction Average
  - **HD** Computing 1, Computing 2, Software Construction, Computer Graphics, Extension Operating Systems
- **Gymea Technology High School** **2008-2013**  
Completed Information Processes and Technology and Information Technology (VET) one year accelerated, sitting HSC for these two courses in 2012. ATAR: 89.55. School Prefect.

## Employment

- **TwoPi Code - Developer/DevOps** **2014-Present**  
I am responsible for a significant chunk of project planning, design and infrastructure management. I have had great opportunity to be able to work with various cloud infrastructure management tools, including cloudformation, terraform, and ansible. I have introduced code quality measures, continuous delivery for most products, and enforced unit testing through CI.
- **University of New South Wales - Course Tutor** **2015-Present**
  - COMP1917 (15S1, 16S1) - Computing 1
  - COMP2041 (15S2) - Software Construction
- **Atlassian - Software Engineering Intern** **Summer 15-16**  
Primarily worked on company wide logging infrastructure. My team ran a large elasticsearch cluster, allowing other employees to retrieve and analyze logs in real time. I gained broad knowledge of various AWS services as well as an in depth understanding of Elasticsearch and the problems of running it (and many other distributed systems) at scale.
- **L&J Computers - Technician** **2012-2014**
- **McDonalds - Crew Member** **2010-2012**

## Information Security

- **3rd Overall** CySCA 2015 - Played for **UNSW3** (Team of 4)
- **1st Overall** Ruxcon CTF 2015 - Played for **UNSW (taytay)** (Team of 10)
- **2nd Overall** Kiwicon CTF 2015 (NZ) - Played for **K17** (Team of 10)
- **1st Globally** Trend Micro CTF - Played for **K17**
- **10th Globally** CSAW - Played for **K17** (Placed 1st in Australia)
- **COMP9447** Reverse Engineering Suid Binaries in Red Star Linux. Found 3 vulnerabilities
- **CySCA 2015** [Writeups for CySCA Web Pentest and Corporate Pentest](#)

## Programming

### Languages

Extremely proficient in the following list of programming languages

Python/Python(Flask)

JS, React/ES6(7), jQuery

HTML/CSS/Less

Objective C/Foundation/Cocoa

Node JS + Express

Golang

C

PHP

MySQL/PGSQL/SQLite

Bash Scripting

## Projects/Libraries/Contributions

A list of projects I am proud of. Including large open source projects I have contributed to, personal products and open source libraries.

- **Library** [Flask-Ldap3-Login](#) - Connect your flask app to your LDAP directory(1.3k Downloads/Month)
- **Library** [Flask-Phantom-Emoji](#) - Opensource Emoji for your Flask App
- **Library** [Sploitn](#) - Python Helpers for binary exploitation over the wire and locally.
- **Contribution** [Kingpin \(Golang\)](#) - Add bash/ZSH completion support([see pull request #99](#))
- **Contribution** [flask-sqlalchemy](#) - Use Raw SQLAlchemy models with Flask-Sqlalchemy([see pull request #250](#))
- **Contribution** [gitlab-pyapi](#) - Allow Project Issues to be filtered by passing kwargs([see pull request #112](#))
- **Contribution** [flask-menu](#) - Get Arguments for Endpoints & Compatibility with Flask-Classy([see pull request #33](#))
- **Contribution** [GitlabIntegrate](#)([see pull request #7](#))
- **Project** [L Plater](#) - An iOS app to allow NSW Learners log their driving hours on their phones.
- **Project** [Playlist Grabber](#) - Export iTunes playlists and songs to your Android Phone
- **Project** [ShowCSE](#) - A webapp for CSE students to showcase their projects
- **Project** [Docker-UI](#) - A basic UI for a private docker registry.
- **Project** [Sprinkle](#) - Remote control and timed solenoid control with remote control via iOS app.
- Business management database in MS Access for L&J Computers during employment to convert a paper based system.
- Additional *closed source* projects worked on during employment at [TwoPi Code](#) available to discuss upon request.

[See more on GitHub @nickw444](#)

## Additional Qualifications

- Extremely comfortable with WSGI dev/deployment on Linux (Docker, Docker Compose, systemd, Vagrant)
- Broad knowledge of Linux server systems (Debian/Ubuntu)
- Familiar with Webpack and browser bundling
- Familiar with immutable infrastructure and provisioning with Ansible
- In depth experience with high availability data stores such as Redis, MongoDB and Elasticsearch
- Extremely familiar with infrastructure provisioning tools such as terraform and cloudformation
- Extremely familiar with most core AWS services

## Achievements & Volunteer Work

- Certificate II In Information Technology. Awarded Sutherland BEN VET Excellence Award
- School Prefect at GTHS
- UNSW [CSESoc](#) Dev Head
- [CSESoc](#) (UNSW) First Year Camp Leader (2015, 2016)
- [Appeared on ABC News 24 Weekend Breakfast for Interview about CySCA 2015](#)
- [Published blog post on developer.atlassian.com about Kingpin \(Golang\) CLI bash completions](#)
- [Accurately predicted top 3 results of the Triple J Hottest 100 using OCR and string matching algorithms](#)

## Referees

[Available upon request →](#)