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, Software Construction, Computing 2, Computer Graphics

- ### 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.

Employment

- ### TwoPi Code - Lead Developer, Director   **2014-Present**
  As a lead Developer and owner of TwoPi Code, I am responsible for a significant portion of code production in several projects. I am able to heavily influence the overall design of these projects by working closely with other staff. Due to my role, most responsibility of team management and coordination is handed to me, giving me the opportunity to effectively manage other developers in my team.

- ### 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**
  During my internship at Atlassian, I primarily worked on logging infrastructure, also known as LaaS. I contibuted towards running a large elasticsearch cluster, allowing other Atlassians to retrieve and analyse logs. I gained broad knowledge of various AWS services such as Kinesis, EC2, S3, Cloudformation, IAM, and DynamoDB as well as an in depth understanding of Elasticsearch and the problems of running it 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/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 controll 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

- Extremly 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 availably data stores such as Redis, MongoDB and Elasticsearch

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
- Acurately prediced top 3 results of the Triple J Hottest 100 using OCR and string matching algorithms

Referees

Available upon request →