

# Michael Vo

SOFTWARE ENGINEER · UNIVERSITY OF SYDNEY

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## Education

### University of Sydney

Sydney, AU

BACHELOR OF COMPUTING (COMPUTER SCIENCE)

Feb 2020 - Nov 2022

- Dean's List of Excellence · Academic Merit Prize · School of Computer Science Undergraduate High Honour Roll · \$5950 scholarship + early conditional entry offer (E12) · Dalzell Scholar

## Experience

### Canva

Sydney, AU

FRONTEND SOFTWARE ENGINEER INTERN

Dec 2021 - Feb 2022

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### Enrich Education

Sydney, AU

FULL STACK DEVELOPER

Dec 2019 - Feb 2020

- Created automated web report system for K-12 tutoring centre using Vue.js, Django REST Framework, and SQLite with user authentication
- Concisely visualised student performance over time against the rest of their classes with interactive graphs using Chart.js
- Automatically emailed summarised reports created with Matplotlib at the end of each term to parents of each student

## Projects

### KH Item Tracker

[Website](#)

WEB APPLICATION

[GitHub](#)

- Developed a customisable tracker for progress in “randomiser” mods for a video game series using Vue.js and TypeScript
- Used WebSockets powered by a Python backend for synchronisation between clients
- Integrated with the Open Broadcaster Software (OBS) to embed a transparent overlay that can be remotely controlled
- Used by thousands of people around the world (Cloudflare analytics)

### Twitch Colours

[Website](#)

WEB APPLICATION

[GitHub](#)

- Developed a full stack web application using Vue.js, Django, and SQLite, integrating with the Twitch OAuth 2.0 flow for user authentication
- Used Celery and Redis to asynchronously connect to Twitch's IRC servers with OAuth tokens, to dynamically change the user's username colour

### x2017

[GitHub](#)

UNIVERSITY PROJECT | 98.53%

Systems Programming, 2021 Semester 1

- Implemented a virtual machine, objdump, and an assembler for an assembly language with a “backwards” non-byte-aligned binary format
- Implemented small programs directly in assembly for end-to-end tests
- Optimised for a final compiled virtual machine binary size of under 10 KiB

### ProcChat

Systems Programming

UNIVERSITY PROJECT | 100%

2021 Semester 1

- Created a concurrent localised chat server in C using inter-process communication with named pipes
- Thoroughly tested through unit and end-to-end tests using CMocka

### C-to-Python Transpiler

Intro to Programming (Advanced)

UNIVERSITY PROJECT | HIGH DISTINCTION

2020 Semester 1

- Created a transpiler to convert basic C programs to equivalent Python programs, in Python
- Thoroughly tested through end-to-end tests with Pytest

## Competitions

### 4<sup>th</sup>/83 — Atlassian x SecSoc 2020 CTF

2020

CYBERSECURITY COMPETITION

Atlassian, University of New South Wales

- Placed 4<sup>th</sup> out of 83 teams in a 2 day cybersecurity capture-the-flag competition, run by Atlassian and the UNSW Security Society

### Perfect Score — National Computer Science School Competition

2018

PYTHON PROGRAMMING COMPETITION

Australian Computing Academy

- Received a perfect score in a 5 week high school programming competition with thousands of global competitors