Michael Vo

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR · UNIVERSITY OF SYDNEY

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Work Experience

University of Sydney
Sydney, AU

CASUAL ACADEMIC
Jul 2022 - Present

- Tutor for INFO1110: Introduction to Programming - **teaching programming in Python** to classes of 20, marking, and conducting viva voces
- Topics covered: programming fundamentals, object-oriented programming, recursion, graph traversal/search algorithms

Canva
Sydney, AU

FRONTEND SOFTWARE ENGINEER INTERN
Dec 2021 - Feb 2022

- Developed an internal tool to facilitate the efficient evaluation of an algorithm and improve workflows, using **React**, **TypeScript**, and **MobX**
- **Significantly improved testing processes** with a new pipeline to improve developer productivity and reduce friction (**83% reduction** in steps)
- Analysed data using **SQL** and **Python** to extract user insights in order to guide development decisions

Enrich Education
Sydney, AU

FULL STACK DEVELOPER
Nov 2019 - Feb 2020

- Created automated web report system for K-12 tutoring centre using **Vue.js**, **Django REST Framework**, and **SQLite**
- Concisely visualised student performance over time against the rest of their classes with interactive graphs using **Chart.js**
- **Significantly improved internal processes** for efficiency, accuracy, and reliability, **increasing satisfaction of both staff and customers**

Extracurricular

UNSW Computer Science and Engineering Society (CSESoc)
Sydney, AU

PROJECT TEAM LEAD
Feb 2022 - Present

- Leading a team to build a hiring management system to streamline recruitment processes (applications, interviews, and results)
- Developing an MVP using **React**, **TypeScript**, **Tailwind CSS**, **Rust**, and **PostgreSQL**, and designing the UI/UX for various projects
- Created website for TechSpire, a tech conference that **quickly sold out 120 tickets** and attracted several sponsor companies, with **Next.js**
- Created content for and presented public workshop teaching JavaScript/React concepts: Promises/async, Fetch API, race conditions, etc

Projects

KH Item Tracker
⌂ *Website*

WEB APPLICATION
◉ *GitHub*

- Developed a customisable tracker for a video game series using **Vue.js** and **TypeScript**, and **WebSockets** powered by a **Python** backend
- 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 IRC servers with OAuth tokens, to dynamically change the user's username colour

x2017
◉ *GitHub*

UNIVERSITY PROJECT | MARK: 98.53%
Systems Programming

- Implemented a **virtual machine** and disassembler in **C**, and assembler in **Python** for a "backwards" assembly language
- Optimised virtual machine binary size of under 10KiB (involved reimplementing start function in x86-64 assembly)

Competitions

2022	**5th place — *3rd highest individual competitor*,** UNSW SecSoc x Skylight Cyber CTF	Sydney, AU
2022	**6th place,** USYD GDSC Algothon Upper Division Programming Competition	Sydney, AU
2020	**4th/83 — *highest scoring team with first year students*,** Atlassian x UNSW SecSoc 2020 CTF	Sydney, AU

Education

University of Sydney
Sydney, AU

BACHELOR OF ADVANCED COMPUTING (COMPUTER SCIENCE)
Feb 2020 - Nov 2023

- Dean's List of Excellence · Academic Merit Prize · School of Computer Science Undergraduate High Honour Roll · E12 scholarship