Michael Vo

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WORK EXPERIENCE

CANVA | Incoming Frontend Software Engineer Intern   Sydney, AU | Dec 2021 - Feb 2022

ENRICH EDUCATION | Full Stack Developer   Sydney, AU | Dec 2019 – Feb 2020
- Created automated web tutoring report system using **Vue.js**, **Django REST Framework**, and **SQLite** with user authentication
- Concisely visualised weekly student performance against the rest of their classes with interactive graphs using **Chart.js**
- Automatically emailed termly summarised reports created with **Matplotlib** and **custom HTML templates** using the **Gmail API**

PROJECTS

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

TWITCH COLOURS ⬀   Vue.js, Python, Django, SQLite, OAuth, Celery, Redis
- 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 to dynamically change the user's colour after every message

X2017 ⬀   C, Assembly | COMP2017 Systems Programming, 2021S1
- 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 with a Bash test script
- Optimised for a final compiled binary size of under 10 KiB
- Created as part of COMP2017 Systems Programming, 2021 Semester 1

PROCCHAT   C, Concurrency, IPC | COMP2017 Systems Programming, 2021S1
- 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
- Created as part of COMP2017 Systems Programming, 2021 Semester 1

CAMELLIA SINENSIS   C, Concurrency, Encryption
- Implemented a thread-safe B-tree with encryption using the TEA algorithm and thoroughly tested using CMocka
- Created as part of COMP2017 Systems Programming, 2021 Semester 1

COMPETITIONS

ATLASSIAN X UNSW SECSOC CTF | 4ᵀᴴ/83 teams   Sydney, AU | 2020
- Placed **4th out of 83** teams in a 2 day cybersecurity capture-the-flag competition
- The **only winning team with first year students**

NATIONAL COMPUTER SCIENCE SCHOOL CHALLENGE | Perfect Score   Sydney, AU | 2018
- Received a **perfect score** in a 5 week high school Python programming competition with thousands of global competitors

EDUCATION

University of Sydney   Sydney, AU | Feb 2020 - Nov 2022
Bachelor of Advanced Computing (Computer Science)

Weighted Average Mark: 86% · Dalyell Scholar · Dean's List of Excellence in Academic Performance · Academic Merit Prize · School of Computer Science High Honour Roll · Early Offer Year 12 (E12) Scholarship ($5950)

SKILLS

Languages: JavaScript/TypeScript · Python · C · Java · HTML/CSS · Shell/Bash · SQL

Web: React · Mobx · Vue.js · Vuex · Django/Django REST Framework · Stylus · Pug/Jade

Technology: Unix/Linux · Git · Nginx · Apache/HTTPD · CI/CD · Unit & E2E Testing