☑ michael@zaxu.xyz | 😭 zaxu.xyz | 🖸 Zaxutic | 🛅 michael--vo

Education ____

University of Sydney 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

Industry Experience

Akuna Capital Software Development Intern - UI (Web)

Dec 2022 - Feb 2023

- Created full stack web-based UIs for traders using React, TypeScript, FastAPI (Python), WebSockets, and Solace, deployed to Kubernetes
- · Rewrote legacy systems using modern technologies and redesigned APIs for modularity, reusability, and maintainability

Canva Frontend Software Engineer Intern

Dec 2021 - Feb 2022

- Developed an internal tool to facilitate efficient evaluation of algorithms 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 Full Stack Developer

Nov 2019 - Feb 2020

- Created automated web report system for K-12 tutoring centre using Vue.js, Django REST Framework (Python), and SQLite
- · Concisely visualised student performance over time against peers with interactive graphs using Chart.js

University Experience _____

University of New South Wales Casual Academic

Feb 2023 - Present

• Tutor for COMP6080: Web Front-End Programming — teaching classes, running help sessions, and marking

University of Sydney Casual Academic

Jul 2022 - Dec 2022

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

UNSW Computer Science and Engineering Society (CSESoc) PROJECT DIRECTOR

Feb 2022 - Present

- Leading a team to build a hiring management system to streamline recruitment processes (applications, interviews, and results)
- $\bullet \ \ \text{Developing an MVP using React, TypeScript, Tailwind CSS, Rust, and PostgreSQL, and designing the UI/UX for various projects}$
- Created website for TechSpire, a tech conference that quickly sold out 120 tickets and attracted several sponsor companies, with Next.js
- $\bullet \ \ \text{Created content for and presented both internal and public workshops teaching JavaScript and React concepts}$

Projects_____

KH Item Tracker Web Application

🔇 tracker.zaxu.xyz 🖸 zaxutic/kh-rando-tracker

- 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 Web Application

♦ colours.zaxu.xyz **□** zaxutic/colours

- 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

Competitions_

- 2022 **UNSW SecSoc x Skylight Cyber CTF,** 5^{th} place -3^{rd} highest individual competitor
- 2022 USYD GDSC Algothon Upper Division Programming Competition, 6th place
- 2020 **Atlassian x UNSW SecSoc 2020 CTF**, 4th/83 highest scoring team with first year students
- 2018 National Computer Science School Challenge, Perfect Score

Skills

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

Frontend React · Mobx · Tanstack Query · Vue.js + Vuex · TailwindCSS · Stitches · SASS/SCSS

Backend tRPC · FastAPI · Flask · Django · PostgreSQL · MongoDB

Other Docker · Figma · Git · Unix/Linux · Nginx · Apache/HTTPD · CI/CD