Kaiqi Liang

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EDUCATION

Master of Information Technology
University of Western Australia (UWA)

📅 28 February 2022 - December 2023

WAM: 82.5   Extracurriculars:

- 2023: Computer Science Student Club (CSSC) Vice President, Quantitative Finance UWA (QFin) Trading Team, UniMentor, 32nd in the South Pacific ICPC Preliminary Contest
- 2022: CSSC Posgraduate Representative, UWA Student Guild International Student Department (ISD) Liaison Committee

Bachelor of Computer Science
University of New South Wales (UNSW)

📅 26 February 2018 - 16 December 2021

WAM: 78.042   Extracurriculars:

- 2021: School of Computer Science & Engineering (CSE) Student Representative, CSESoc Executive
- 2020: CSE Revue Social Director
- 2019: CSE Peer Mentor, CSESoc Media Committee

Achievements

- 100 (=1st) - **COMP3121** Algorithms & Programming Techiques
- 99 (=1st) - **COMP1521** Computer Systems Fundamentals
- 98 (2nd) - **COMP2511** Object-Oriented Design & Programming
- 94 (2nd) - **COMP2121** Microprocessors & Interfacing
- 94 - **COMP1531** Software Engineering Fundamentals
- 90 - **COMP2521** Data Structures and Algorithms
- 90 - **COMP6080** Web Front-End Programming
- 87 (=1st) - **CITS5504** Data Warehousing
- 87 (=4th) - **CITS5501** Software Testing & Quality Assurance
- 87 - **ELEC4406** Digital System Design
- 86 - **CITS5003** Cloud Computing
- 86 - **CITS3006** Penetration Testing

SKILLS

Programming Languages

C++	Rust	Java	TypeScript
C	C#	Swift	Haskell
Perl	Dafny	Assembly	Shell Script

Data Science

R	Python	Prolog	Machine Learning
MATLAB	PowerBI	SQL	Graph Databases

Other Technologies

Git	Docker	AWS	VHDL
HTML	CSS	React	Vue
ROS	OpenGL	Unity	Unreal Engine

PROJECTS

🔗 Tax Calculator

- A calculator that determines the tax category and the amount of tax withheld based on your income salary
- Built the Frontend in **React TypeScript** and deployed on **GitHub.io**, Backend in **TypeScript** and deployed on **Google App Engine**

🔗 Chrome Extension

- A Chrome Extension for YouTube that removes distracting features
- Built in **TypeScript** and compiled to **Vanilla JavaScript** before publishing to **Chrome Web Store**

EXPERIENCE

Academic Tutor
UNSW

📅 18 February 2019 - Present

- Involved in teaching and developing content for 17 different courses under the School of Computer Science & Engineering impacted thousands of students
- Provided supplementary, tailored one-on-one academic assistance for Aboriginal students in Digital Circuits and Systems (**VHDL**), Extended Operating Systems (**C**) and Solving Modern Programming Problems with **Rust** under the Nura Gili Indigenous Tuition Program

Software Engineer Intern
IMC

📅 27 November 2023 - 2 February 2024

- **C++**
- **FPGA**

Software Engineer Intern
Google

📅 28 November 2022 - 17 February 2023

- Attracted media attention as featured in several news articles by adding GIFs in ChromeOS Emoji Picker
- Provided the Backend service in **C++** as a wrapper for the **Tenor API**
- Implemented Frontend features in **TypeScript** to interact with Backend

Software Engineer Intern
Canva

📅 13 December 2021 - 25 February 2022

- Enhanced existing features on Canva Live Presentations with added functionality to improve user experience
- Followed Canva Frontend design patterns to produce good quality and consistent code in **React TypeScript** with **MobX**

Resident Advisor
UWA Trinity Residential College

📅 15 July 2023 - 25 November 2023

- Supported IT and AV related matters around the college
- Connected staff and residents in organising and promoting events
- Acted as a leader and manager for a designated building within the college
- Welcomed new residents and ensured they are settled in comfortably
- Undertook after-hours administration and management of the college

Professional Computing (CITS3200) Project Auditor
UWA School of Physics, Maths & Computing

📅 25 July 2022 - 24 October 2022

- Attended team meetings and commented on team processes
- Checked the veracity of claimed hours against evidence on **GitHub**

International Student Engagement Ambassador
UWA Office of Deputy Vice-Chancellor (Education)

📅 15 July 2022 - 10 November 2022

- Reduced the time International Student Support Team spends cross-checking student information every week from 2 hours to 15 minutes by automating the process with a **TypeScript** and **Python** script
- Organised excursions and social events tailored for international students