Kaiqi Liang

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- github.com/Kaiqi-Liang
- http://kaiqi-liang.web.app

EXPERIENCE

Graduate iOS Engineer

TikTok

5 February 2024 - Present

- Implement TikTok Live Interaction UI features in **Objective C** and **Swift** based on Figma designs
- Collaborate with Android, Backend and Frontend developers to meet requirements from the Product Managers in a synchronised manner

Academic Tutor

UNSW

18 February 2019 - Present

- Involve in teaching and creating content for 20 different programming related courses impacting thousands of students
- Provide 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 Trading

27 November 2023 - 2 February 2024

- Wrote **C++** to handle a new feed protocol from the stock exchange
- Simulated trading Futures and ETFs by building an auto trader in **Rust** and **Python**

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 Backend services 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 Presentation 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
- Acted as a leader and manager for a designated building within the college
- Undertook after-hours administration and management of the college

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

PROJECTS

Discord Bot

- A Discord Bot that motivates users to complete **LeetCode** questions every day
- Built in **Rust** and deployed on an **Oracle Cloud** compute instance running as a background task

iOS App

- An iOS App that replicates a card game called **What's Your Story**
- Built in **Objective C** and **UIKit**, launched onto a real iPhone

Chrome Extension

- A Chrome Extension for YouTube that removes distracting features
- Built in **TypeScript**, compiled to **Vanilla JavaScript** then published to **Chrome Web Store** with hundreds of users and 5 star positive review

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**

EDUCATION

Master of Information Technology

University of Western Australia (UWA)

28 February 2022 - 19 December 2023

WAM: 84.417   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 Postgraduate 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
- 92 **(2nd)** - **CITS5507** High Performance Computing
- 92 **(3rd)** - **CITS3005** Knowledge Representation
- 90 - **COMP2521** Data Structures and Algorithms
- 90 - **COMP6080** Web Front-End Programming
- 87 **(=1st)** - **CITS5504** Data Warehousing
- 87 - **ELEC4406** Digital System Design
- 86 **(3rd)** - **CITS3006** Penetration Testing
- 86 - **CITS5003** Cloud Computing

SKILLS

Programming Languages

C	C#	C++	Objective C
Swift	Rust	Java	TypeScript
Haskell	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