

# Kaiqi Liang

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 <http://kaiqi-liang.web.app/>

 [github.com/Kaiqi-Liang](https://github.com/Kaiqi-Liang)

## 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, CESoc Executive
- 2020: CSE Revue Social Director
- 2019: CSE Peer Mentor, CESoc Media Committee

## Achievements

- 100 (=1st) - COMP3121 Algorithms & Programming Techniques
- 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 (=4th) - CITS5501 Software Testing & Quality Assurance
- 87 - ELEC4406 Digital System Design
- 86 (3rd) - CITS3006 Penetration Testing
- 86 - CITS5003 Cloud Computing
- 84 - AUTO4508 Mobile Robots
- 83 (3rd) - CITS3007 Secure Coding
- 83 (7th) - CITS4009 Computational Data Analysis

## 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

### 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 over a hundred 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**

## EXPERIENCE

### Mobile Software Engineer


TikTok

 5 February 2024 - Present

- Implement TikTok Live Interaction features in **Objective C**

### Academic Tutor

UNSW

 18 February 2019 - Present

- Involve in teaching and creating content for 15 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 autotrader in **Python** and **Rust**

### 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

### 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