

## Shen-Kit Hia

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## Professional Summary

I graduated from Perth Modern School with a 99.95 ATAR, and am currently studying Software Engineering at Monash University. I am passionate about coding, productivity, and fitness.

## Education

### Monash University | 2023 - 2026

*Bachelor of Software Engineering (Honours)*

94 WAM, 4.0 GPA (2024)

### Harvard CS50 Introduction to Computer Science (online) | 2019 - 2020

## Work Experience

### Residential Advisor | 2025

### University Teaching Associate | 2024

- Tutored the Introduction to Software Engineering unit (in my second year of university)
- Learned to teach technical concepts to students with varying degrees of existing knowledge
- Received the top rating ("Very High") on the student's satisfaction report at the end of semester
- Was the only undergraduate member of the unit's teaching team

### Private Tutor | 2021 - present

- Taught Year 11-12 Chemistry and Physics, and Year 9-12 equivalent Mathematics
- Learnt to communicate difficult concepts in a comprehensible manner
- Improved time management and online communication by balancing tutoring and studying
- Having taught 6 students, I learnt to see from different perspectives more easily
- Students improved significantly, one even graduating with a 99+ ATAR (top 1% in the state)

## Co-Curricular

- IMC Launchpad program (out of several thousand applicants) | 2024
- Volunteered at Monash Open Day | 2024
- Monash Minds (selective student leadership program) | 2023
- 110+ hours of community service during senior highschool | 2020-2022
- Played in the Honours division for inter-school volleyball | 2022
- Started a barbershop quartet, performed at primary schools and my own graduation | 2022
- Section leader in Symphony Orchestra and Senior Wind Orchestra | 2022

(see [my website](#) for more achievements, projects, and project demonstrations)

## Academic Achievements

- Graduated highschool with a 99.95 ATAR | 2022
- Chemistry Subject Exhibition (top in WA) | 2022
- General Exhibition (14th in WA) | 2022

## Personal Projects and Competitions

### **KitKat-Lang | 2024**

- Made my own high-level programming language using Haskell
- Compiles to LLVM IR with Haskell, then to machine code using gcc and llc
- Functionality includes integers/strings/booleans, conditionals (if/else if/else, while loops), boolean logic and integer arithmetic, print statements, and variable declaration, initialisation, and retrieval for all data types

### **Waypoint | 2024**

- Created a Project Management tool for Agile software teams in a team of 6
- ReactTS frontend with MongoDB backend, containerised with Docker
- Features include admin and developer accounts, managing users, sprints, and product backlog items, sprint burndown charts and developer productivity charts, and more

### **1st Place MAPS Beginner Competitive Programming Competition | 2024**

- Solved 8/12 problems in the competitive programming competition to achieve 1st place

### **1st Place UI/UX Design Hackathon | 2024**

- Proposed an application idea to solve the given problem statement
- Learned and used Figma to design the UI/UX

### **Hia's Up (mobile game) | 2023**

- Learnt to code in Dart, using the Flutter framework

### **CLI Password Manager (Windows and Linux) | 2023**

- Learnt about relational databases (I used sqlite), and basic cryptography concepts
- Written in Python using the cryptography and sqlite3 packages

### **Bullet Journal App (Windows and Linux) | 2021**

- Written in HTML, CSS and Javascript, using the Electron framework
- Implemented a daily planner with tasks and events, a monthly calendar, and a habit tracker which integrates with the calendar
- Learned web-development skills, npm, creating responsive web-apps, and how to plan a project before starting to code. Also used Firebase temporarily to save data.

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