Shen-Kit Hia

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Education

Monash University | 2023 - 2026
Bachelor of Software Engineering (Honours)
FIT Unit Grades:
- 2024: FIT2081 (99%), FIT2102 (98%), FIT2107 (95%), FIT2004 (94%),
    FIT2100 (93%), FIT2099 (92%), FIT2101 (88%)
- 2023: FIT1008 (99%), FIT1045 (96%), FIT1056 (90%)

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

Work Experience

Monash Connected Autonomous Vehicles (MCAV) | 2025 - present
- Integrating Autoware and ROS2 into a StreetDrone Twizy and Nissan ENV200
- C++ codebase, using Python for testing
- Currently developing an automatic valet parking system

Residential Advisor | 2025 - present
- Responsible for organising/running events and contributing to the community
- Improving my leadership, communication, conflict resolution, teamwork, and confidence

University Teaching Associate | 2024 - present
- Tutor for Data Structures and Algorithms and Introduction to Software Engineering
- Learnt to communicate difficult concepts in a comprehensible manner, adjusting to each student's existing knowledge and way of learning
- Received the top rating ("Very High") on the student's satisfaction report at the end of semester
- The only undergraduate member of the unit's teaching team

Private Tutor | 2021 - 2024
- Taught Year 11-12 Chemistry and Physics, and Year 9-12 equivalent Mathematics
- 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
- Section leader in Symphony Orchestra and Senior Wind Orchestra | 2022

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

Academic Achievements

- Accepted into Monash Deep Neuron (out of 160 applicants) | 2025
- 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

Finance Tracker TUI | 2025
- Made a finance tracker that runs in the terminal (TUI), using Golang with a sqlite database
- Functionality includes recording income, expenditure and investments, custom categories, displaying investment returns with data from Yahoo Finance, and dashboard summaries
- Gained 20+ stars on [GitHub](#) in one day, now receiving feature requests from the community

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 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
- 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.

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