

Ronald Chiang

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EDUCATION

University of New South Wales

February 2022 – Present

Bachelor of Science (Advanced Mathematics) (Honours)

95 WAM

- UNSW Science Dean's List for Academic Excellence (Top 100 Student)
- 100 in COMP2521: Data Structures and Algorithms
- 95 in COMP1531: Software Engineering Fundamentals

EXPERIENCE

Private Mathematics Tutor

October 2022 – Present

Self-employed

Sydney, Australia

- Taught engaging 3-hour lessons that are grounded in real-world examples for HSC maths
- Created flexible curricula following school syllabus and accounting for short notice changes
- Produced materials for lessons, homework and exams to fit the needs of students

Mathematics Tutor

March 2022 – October 2022

Dr. Du Education

Sydney Australia

- Lectured classes from 3 to 30+ students ranging from Year 10 to HSC Mathematics
- Tutored students one-to-one and provided a personalised lesson to target weaknesses
- Ran dozens of 8+ hour zoom help sessions for Mathematics and Physics

EXTRACURRICULARS

Autonomous Systems Software Developer – UNSW Redback Racing

April 2022 – Present

- Worked in a team of 15 to develop a system for autonomous driving in Formula SAE competitions
- Created Python software that generated tracks to test autonomous vehicle systems on
- Worked with ROS Nodes in C++ to parse data from software like FSSIM for testing control systems

Education Director – UNSW Mathematics Society

March 2022 – Present

- Led a team of 6 to produce events that broadened students' scope of maths
- Wrote materials for and lectured seminars for MATH1081, MATH1241, MATH2621
- Hosted community events to promote mathematics like MathSoc Jeopardy!
- Liaised with industry sponsors to produce events such as Optiver's Piece the Puzzle

Subcommittee Trainee – UNSW CSE Society Development

May 2022 – September 2022

- Learned HTML, CSS, JavaScript and React through workshops as a trainee
- Worked together in a team of 8 to create a full-stack application Code or Die, based on Write or Die
- Created other small projects such as Uwugle, a language translator and a game in the style of the Bored Button

PROJECTS

UNSW Beans | TypeScript, ExpressJS, Jest, GitLab

- Developed a HTTP back-end server for a messaging application with ExpressJS in TypeScript
- Implemented features including account registration, data encryption, and password resetting via email
- Used the sync-requests module and Jest to create tests for HTTP Responses from the server
- Employed continuous integration through a YAML config file on GitLab for linting, type-checking and testing

CHIP-8 Interpreter | Python, Pygame

- Developed an interpreter for the CHIP-8 language as seen on the COSMAC VIP Microcomputer
- Created emulated CPU and memory model with 35 opcode instructions employing the fetch-decode-execute cycle
- Written in Python, employing OOP practices, and emulated a display using Pygame