

Tim Zhang

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EDUCATION

University of New South Wales

February 2019 - Present

Bachelor of Science (Computer Science) and Bachelor of Engineering (Electrical)

- WAM: 91.67 (high distinction)
- University scholarship: Academic Awards Achievement (AAA)
- Achieved a final grade of 99 in Data Structures and Algorithms (COMP2521)
 - Received the Atlassian COMP2521 1st in course monetary prize
- Faculty of Engineering Dean's Award (2020)

Ryde Secondary College

2013 - 2018

- ATAR: 99.45
- Dux of Year 11 and Year 12
- Student Representative Council member for years 2013-2017 with an executive role in 2017 and school prefect in 2018

PERSONAL PROJECTS & EXTRA-CURRICULAR

- Developed an open-source cross-platform sci-fi strategy game called *Cosmica* from scratch using the Unity game engine and C# and published it to the Google Play app store:
play.google.com/store/apps/details?id=com.Cosmica.Cosmica.
 - Developed another smaller game with Unity called *Astral Assault* which is published online at tymoteus.itch.io/astral-assault
- Developed and deployed a personal blog site with a database and an authentication system, viewable at timz.dev/. This involved using Semantic UI and jQuery for the front-end, and Node.js, Express, Nginx, MongoDB and Passport.js for the back-end.
- Led a team of 8 in developing an autonomous delivery vehicle over 9 weeks and produced the only functional prototype out of 144 participants. Showcase: youtube.com/watch?v=ogIqlcZ1EoI.
- Developed an IoT plant monitoring system with a web interface for controlling motors and viewing live sensor data.
 - This involved using Python libraries such as AdafruitDHT, psutil and the Flask web framework
- Volunteering experience:
 - Planned and coordinated a week-long charity drive for North Ryde Community Aid in 2018
 - Volunteered in annual door-knocking fundraising events for the Salvation Army's Red Shield Appeal for years 2015-2018
 - Volunteered school lunchtimes to teach mathematics to struggling students of all years and assisted teachers during mentoring sessions from 2017-2018
- Worked as a private tutor from September 2019 to present, organising face-to-face lessons in HSC physics and mathematics
 - Helped one student climb 12 ranks in their physics cohort with only a month of guidance

SKILLS

- **Software:**
 - Proficient: C, C#, Python, JavaScript/Node.js, jQuery, Express, Unity scripting API
 - Familiar: HTML, CSS, Bootstrap 4, Semantic UI, MongoDB with Mongoose, Passport.js, Flask, Git