

# 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 1<sup>st</sup> place 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](https://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](https://tymoteus.itch.io/astral-assault)
- Developed and deployed a personal blog site with a database and an authentication system, viewable at [timz.dev/](https://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](https://youtube.com/watch?v=ogIqlcZ1EoI).
- Developed an IoT automated plant propagating system which posts data snapshots to [timz.dev/Hydroponix](https://timz.dev/Hydroponix) and has a web interface for controlling motors and viewing sensor data
  - Built with influxDB, Bootstrap 4 and Python libraries such as requests, AdafruitDHT, psutil, Flask and picamera
- 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