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# Ryan Wang

GitHub: Thyroidr  
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Achievement is proportional to passion and dedication. I was first exposed to the world of computer science with turtle graphics, and since then I have dived deeper and deeper. I seek to create new solutions, optimise existing solutions, and most importantly, help others along the same path.

## SKILLS

<b>Tools and Languages</b>	C++, Java, Python, Git, Rust, Haskell, JavaScript, React.js, $\text{\LaTeX}$
<b>Communication</b>	English, Chinese

## EXPERIENCES

<b>Teaching Assistant</b> <i>Australian National University</i>	<b>Feb 2022 — Present</b> <i>Canberra, Australia</i>
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- Preparation and delivery of 2 hours of tutorial contents to around 20 students, once per week.
- Assessment marking.
- Tutored course: COMP 2620 Logic

<b>Informatics Mentor</b> <i>Australian Maths Trust</i>	<b>Dec 2020 — Present</b> <i>Canberra, Australia</i>
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- Part of the Australian Informatics Olympiad Committee to select four high school students each year to represent Australia in the International Olympiad in Informatics
- Organisation and delivery of lectures and activities to around 25 of Australia's brightest high school students.

## EDUCATION

<b>Bachelor of Advanced Computing (Research and Development) (Honours)</b> , <i>Australian National University</i>	<b>Feb 2021 — Dec 2025</b>
Weighted Average Mark: 98	

<b>Bachelor of Mathematical Sciences</b> , <i>Australian National University</i>	<b>Feb 2021 — Dec 2024</b>
In a double degree package with the degree above. Weighted Average Mark: 97.25	

<b>Narrabundah College, ACT</b> , 99.95 ATAR	<b>2019 — 2020</b>
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## PROJECTS

<b>Personal website</b> <a href="https://www.ryanxw.com">https://www.ryanxw.com</a>	<b>2022</b>
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- Made using JavaScript and React

<b>Algorithms for maintenance of strong components in incremental graphs</b> <a href="https://github.com/Thyroidr/scc-maintenance-in-incremental-graphs">https://github.com/Thyroidr/scc-maintenance-in-incremental-graphs</a>	<b>2022</b>
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- Based on results from various latest publications.
- Implemented in Python with testing and benchmarking.

<b>Documentation of solutions to algorithm and data structure challenges</b> <a href="https://www.ryanxw.com/InfoBlogs">https://www.ryanxw.com/InfoBlogs</a>	<b>2019</b>
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- Made using Hexo
- Problems from competitions including International Olympiad in Informatics, French-Australian Regional Informatics Olympiad, and Australian Invitational Informatics Olympiad

## AWARDS AND ACTIVITIES

<b>Winning Team</b> , <i>ANU-ASD Capture the Flag 2021</i>	<b>Nov 2021</b>
<b>Best Pair in Australia</b> , <i>Simon Marais Mathematics Competition</i>	<b>Oct 2021</b>
<b>Dean's Science Education Commendation</b> , <i>Australian National University, College of Science</i>	<b>Aug 2021</b>
<b>National University Scholarship</b> (12500AUD per Annum), <i>Australian National University</i>	<b>Feb 2021 — Dec 2025</b>
<b>Bachelor of Mathematical Sciences Scholarship</b> (10000AUD per Annum), <i>Australian National University</i>	<b>Feb 2021 — Dec 2024</b>
<b>Bronze Medal</b> , <i>International Olympiad in Informatics</i>	<b>Aug 2019</b>