

Oliver Xu

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Education

University of New South Wales (UNSW)

2020 - 2025

Bachelor of Engineering (Honours) - Aerospace Engineering/Bachelor of Science - Computer Science

- *Distinction WAM, Dean's Honours List (2021)*

Experience

Casual Academic | UNSW

Sep 2021 -

School of Computer Science and Engineering (2021 - present)

Tutor & Lab Assistant for the following courses:

- **COMP1531 – Software Engineering Fundamentals:**
Python, Javascript/Typescript, Node.js, Express, Git, software development lifecycle and agile project management.
- **COMP6080 – Web Front-end Programming:**
HTML, CSS, Javascript, React, web development, frontend testing (cypress), responsiveness, accessibility.

School of Mechanical and Manufacturing Engineering (2023 - present)

Tutor/Demonstrator for **AERO9610 – The Space Segment**

- *Spacecraft design, satellite subsystems, CubeSats, MATLAB Spacecraft Control Toolbox.*
- Course development: worked with lecturer-in-charge on creating lecture slides, tutorials and other course materials

Responsibilities and achievements included:

- Organising and conducting weekly tutorials for classes of ~25 students
- Marking and providing constructive feedback on assessment tasks
- Providing general course help and student assistance through help sessions and forum answers
- Achieved 100% teaching satisfaction from students in termly feedback surveys

Project Director | UNSW Computer Science and Engineering Society (CSESoc)

Jan 2022 – Dec 2022

- Directed a team of 10 working on the Notangles project (<https://notangles.csesoc.app/>), a timetabling tool used by 4000+ UNSW students.
- Utilised Agile project management (Jira, Confluence) to organise sprints and delegate work between team members.
- *Tech Stack: Typescript, React, Styled Components, Express, Node.js, gRPC, MongoDB.*

Relevant Projects

Something Awesome (<https://github.com/oliverxu42/something-awesome>)

- Designed and created an educational web platform for students to learn about cyber security vulnerabilities.
- Created articles and coded up demos to teach topics such as SQL injection attacks, cross-site scripting and other web vulnerabilities.
- *Tech Stack: NextJS, Tailwind CSS, Javascript, Express, NodeJS, MySQL.*

Partnr (<https://github.com/csesoc/trainee-1-23t1>)

- Lead a small group of novice software engineers and developed a web application designed to help uni students find their ideal group members for their team projects.
- *Tech Stack: React, Vite, Typescript, Tailwind CSS, Firebase*

Technical Skills

Programming Languages:	Javascript/Typescript, Python, HTML, CSS, Java, C, C++, SQL, Rust
Libraries & Frameworks:	React, Next.js, Node.js, Express, Flask, MongoDB, Prisma, Firebase, MySQL
Tools:	Linux, Git, Docker, AWS, Burp Suite

Extracurricular

Training Lead | UNSW Computer Science and Engineering Society (CSESoc)

Feb 2023 – Sep 2023

- Responsible for leading, mentoring and upskilling groups of trainee novice software engineers.

Peer Mentor | UNSW Computer Science and Engineering Society (CSESoc)

Feb 2022 – Apr 2022

- Guided and mentored groups of first year students through their transition from high school to university.

Musician | UNSW Wind Symphony

Feb 2020 – Dec 2022

- Flutist and pianist for the UNSW Wind Symphony. Attended weekly rehearsals and performed in concerts each term.