

Josh C. Lim

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EDUCATION

University of New South Wales

Kensington, NSW

Bachelor of Engineering (Mechatronic) / Bachelor of Computer Science

Feb. 2022 – Present

- Maintaining a High Distinction WAM: 97.450
- Awards: UNSW Engineering Dean's Award 2022 and 2023 (top 100 students across UNSW Engineering), Scientia Scholarship, The Jane Street COMP3161 Prize (Third Place)

St Paul's Grammar School Penrith

Cranebrook, NSW

IB Diploma

Jan. 2011 – Nov. 2021

- IB 45/45, equivalent to ATAR 99.95
- Achievements: Dux (2015, 2019, 2020, 2021)
- Cocurriculars: Vice-Captain, Chamber Orchestra, Cello Ensemble, ISA Basketball, Peer Mentoring, Debating

EXPERIENCE

University of New South Wales

Kensington, NSW

Casual Academic: Tutor for "Data Structures and Algorithms" (COMP2521)

Feb. 2023 – Present

- Taught concepts such as recursion, time complexity, trees, graphs, hash tables in C to classes of 24 students
- Prepared weekly lessons and resources such as slides, notes and practice questions to support students' learning
- Debugged hundreds of students' lab and assignment C code in weekly open help-sessions
- Consistently received ratings up to 10% above university averages via the student feedback system each term

Casual Academic: Lab demonstrator for "Digital Circuit Design" (ELEC2141)

Feb 2024 - Apr 2024

- Assisted classes of 30 students with labs involving building digital circuits and FPGA programming in Verilog
- Provided weekly feedback on students' circuit designs and assessed their understanding of digital logic concepts

IBHub

Sydney, NSW

Private Tutor

Jan. 2022 – Dec. 2023

- Tutored up to 10 senior students weekly in subjects such as mathematics, chemistry, physics and economics
- Prepared notes and content to deliver material clearly and concisely to students within lesson time constraints
- Provided feedback and actionable improvements to students regarding their coursework and assessment tasks

EXTRACURRICULAR ACTIVITIES

UNSW Data Science Society (DataSoc)

Kensington, NSW

IT Director

Dec. 2023 – Present

- Developed a full-stack web content-management system with Next.js, Tailwind CSS, tRPC and SQLite
- Designed web projects and delegated tasks to upskill a team of 4-6 subcommittee members
- Led weekly meetings to discuss project progress, plan future tasks and address technical challenges
- Implemented and deployed an internal mail-merge tool for society-wide emails, with React, Express.js, Netlify
- Managed DataSoc's IT infrastructure, including email automation, event pipelines and communication channels

UNSW Mechatronics Society (MTRNSoc)

Kensington, NSW

Workshops Director

Dec. 2022 – Dec. 2023

- Designed and planned various workshops in the area of mechatronics engineering for UNSW students
- Taught workshops on topics such as Arduino, programming, CAD, 3D printing, soldering and motor control
- Hosted workshops for the society's flagship SumoBots event, an robotics competition with 100+ participants
- Led a team of 4 subcommittee members to design workshop exercises and runsheets

Multicultural Bible Ministry (MBM Rooty Hill)

Rooty Hill, NSW

Children's Leader

Apr. 2017 – Present

- Volunteered weekly at church within a team of 8, leading a group of Kindergarten to Year 2 children
- Prepared weekly content such as memorised stories, games, songs and craft activities

TECHNICAL SKILLS

Languages: C/C++, JavaScript/TypeScript, HTML/CSS, Python, SQL (Postgres), Java, Haskell, Verilog

Frameworks, Libraries, Tools: React, Node.js, Next.js, Tailwind, Express.js, Git, Drizzle ORM, Prisma, tRPC