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 – Dec. 2026
- Maintaining a High Distinction WAM: 96.769
- Awards: UNSW Engineering Dean's Award 2022 and 2023 (top 100 students across UNSW Engineering), Scientia Scholarship, The Jane Street COMP3161 Prize (Third Place), The Jane Street COMP3141 Prize (First Place), The Autumn Compass COMP4128 Prize (Second Place), The Jump Trading COMP3231 Prize (First 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

Optiver — Sydney, NSW
Software Developer Intern — Dec. 2024 – Feb. 2025
- Completed a 7-week software project involving gathering requirements from stakeholders, designing and implementing a solution, and presenting the final product to the team
- Completed a multi-stage deployment to deliver a full-stack automation for Optiver's trading platform
- Worked with various technologies (C++, C#, Python and SQL) to update various internal microservices across the entire tech stack from UI to backend to databases

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 - Present
- 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

Casual Academic: Head demonstrator for MTRN2500 — Sep 2024 - Dec 2024
- Led a team of 10 demonstrators to teach C++ programming to a course of 240+ students
- Wrote and review lab exercises, exam questions and course content to ensure alignment with learning outcomes

EXTRACURRICULAR ACTIVITIES

UNSW Software Development Society (DevSoc) — Kensington, NSW
Frontend Director — Jun. 2024 – Dec. 2024
- Developed a web project "CHAOS": a university society recruitment platform
- Managed a team of 7 subcommittee members by delegating tasks and providing technical guidance
- Led weekly meetings to discuss project progress, plan future tasks and address technical challenges

UNSW Data Science Society (DataSoc) — Kensington, NSW
IT Director — Dec. 2023 – Dec. 2024
- 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

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