

Oscar Elliott

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EDUCATION

The University of Adelaide
Bachelor of Software Engineering

February 2021 – November 2025 (Expected)

WORK EXPERIENCE

Freelance Tutor

March 2021 – September 2023

Taught university and high school students, covering 1st and 2nd year computer science courses as well as high school maths. Utilized comprehensive understanding and clear communication skills to help students improve their knowledge and academic performance.

PROJECTS

Linux Shell

January 2024

Developed a Linux Shell in C, adhering to the POSIX API standards. This shell emulates the user experience of interacting with the PC's filesystem, akin to using a terminal on a UNIX-type system. This project showcases my knowledge in C and system-level understanding.

Paxos Consensus Mechanism

September 2023

Implemented a robust Java-based Paxos consensus mechanism project that facilitates consensus among a network. This distributed algorithm seamlessly manages connect, prepare, accept, and consensus phases, implementing a reliable central server for effective communication. The project demonstrates my proficiency in Java and a deep understanding of distributed systems, emphasizing the critical role of fault tolerance and scalability.

COMMUNITY INVOLVEMENT

Participant, CPC – Coding Competition

November 2023 - Present

Contributed to a 10th place finish in the CPC Coding Competition, solving 8 out of 10 challenging Codeforces problems in a three-person team, showcasing adept problem-solving skills under pressure. Demonstrated versatility in addressing diverse challenges, contributing significantly to our team's success.

Participant, Lot 14 Space & Innovation Hackathon.

July 2023

During this hackathon I collaborated with a team of six students to brainstorm, plan, research and assess feasibility of a solution in removing space debris. We presented a report of our proposed solution to a board on industry judges.

TECH STACK

Skilled: C++, Java, Python, C, Git, Docker

Proficient: JavaScript, MATLAB, Pinescript