Oscar Elliott

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EDUCATION

The University of Adelaide   February 2021 – November 2025 (Expected)
Bachelor of Software Engineering

WORK EXPERIENCE

Freelance Tutor   March 2021 – September 2023

I worked with university and high school students, teaching 1st and 2nd year computer science courses as well as high school maths. Through my comprehensive understanding and clear communication skills I helped my 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 serves as a showcase of 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 showcases 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.

LANGUAGES

Skilled: C++, Java, Python, C, Git   **Proficient**: HTML, MATLAB, Pinescript, Docker