

Oscar Elliott

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EDUCATION

The University of Adelaide February 2021 – November 2025 (Expected)
Bachelor of Computer Science (Honours)

WORK EXPERIENCE

Freelance Private Tutor March 2021 – Present

Taught university and high school students, covering 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. In 2024 both students I tutored in Distributed Systems received High distinctions in the course achieving a mean of 17.9% above their expected performance

PROJECTS

Purpose Project May 2024

Collaboratively developed an innovative tool to assist students in identifying potential career paths through interactive assessments and AI-powered evaluation. Utilized OpenAI API's and language model for detailed analysis and a KD-Tree algorithm with a nearest neighbour search for personalized career recommendations. This project highlights my skills in AI integration, algorithm design, and full-stack development.

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.

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](https://codeforces.com/) 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

Skills: C++, Python, Java, JavaScript, C, SQL, Linux, Node.js, Git, Docker, scikit-learn, Flask, NumPy, Pandas.