Simon Tran

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Education

Adelaide University — Adelaide, SA
Bachelor of Software Engineering (Honours) — *Feb 2024 – Dec 2027*

Eynesbury College — Adelaide, SA
Foundation Degree in Information Technology — *Jun 2023 – Jan 2024*

Experiences

Peer Assisted Study Session Leader — Jan 2025 – Present
Adelaide University — *Adelaide, SA*

- Mentoring and helping over **30+** first and second year students in major Adelaide University's courses (*Problem Solving and Programming, Data Structure and Algorithms*), boosted attendee's overall grades by **40%**.
- Co-led weekly sessions and collaborated with **5+** leaders to deliver structured learning plans and maintain a safe, engaging environment.
- Achieved over **98%** success rate of student understanding core concepts such as recursion, debugging and main syntax of **Java**, **Python** and **C#**.

Software Engineer Intern — Jun 2025 – Sep 2025
InnovateAI — *Adelaide, SA*

- Achieved **80%** client satisfaction and boost **30%** of their administration workflows by created AI automation systems using n8n and supported development on **Git Version Control**.
- Ensured system efficiency by **15%** on a five-figure contract by optimizing logic and code base written in **C#** and enhanced back-end functionality in **PostgreSQL**.
- Contributed in data management, deployment state using **Docker**, troubleshooting and refined low-level errors in operating systems to improve websites and automation performances for clients.

Extracurriculars & Awards

Ravi's Study Program Student — Nov 2025 – Feb 2026

- Solved, understand and consolidated knowledge over **50+** core coding questions by studied Data Structures and Algorithms in a fast pace environments.
- Spent **40+** hours every week for **13 weeks** committing to study new technologies, coding projects and work experience while solving coding questions.

Adelaide University Competitive Programming League — Jul 2025 – Oct 2025

- Competed in an **ICPC-style** programming league hosted by the **Competitive Programming Club** and sponsored by **Jane Street**, solving **20+ algorithmic problems**.
- Achieved an individual rank of **22** out of **300+ participants**, demonstrating strong problem-solving, data structures and algorithmic skills

Eynesbury College Student Leadership Representative — Oct 2023 – Jan 2024

- Selected as **1 of 7 Student Voice Representatives** to present key insights and feedback from **200+ students** to the **Eynesbury Academic Board**.
- Collaborated with fellow representatives to identify top **5 student priorities** and propose actionable improvements, boosted 42% of student's behaviour.

Projects

Chess Engine | *Python, Numpy, PyGame* — Nov 2025

- Developed a chess engine using **Python** and **Numpy** with legal move validation, and an AI opponent using greedy and min/max algorithm to evaluate over **100** moves per turn, ensuring the AI always makes the best possible move.

Pathfinding Simulation Visualizer | *React, TypeScript, Tailwind* — May 2025

- Designed an interactive visual tool to demonstrate pathfinding algorithms like **Dijkstra, A***, rendered **2,000+** grid nodes and **100+** maze variations dynamically, maintaining smooth performance across all interactions.

3D Global Disaster Tracker | *React, Three, Express, Node, MongoDB, REST API* — May 2025

- Built a full-stack interactive **3D globe** using **GlobeGL** and **ThreeJS** to visualize over **5,000** disaster events in real time using **NASA APIs**, achieved over **92%** accurate world-wide events.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C#, SQL, HTML/CSS
Frameworks: React, NodeJS, Express, ThreeJS, Tailwind, Bootstrap, ASP.Net, PostgreSQL, MySQL, MongoDB
Tools: AWS (EC2, S3), REST APIs, Docker, Linux, Git, CI/CD pipelines