TIMOTHY TEW | COMPUTER SCIENCE (ADVANCED)

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Online Portfolio - https://timoisgr8.github.io/my-portfolio/
Development Environment: Window Subsystem for Linux in VSCode

Professional Summary

High-achieving Computer Science student with a strong academic record and a passion for problem-solving.

Skilled in developing efficient algorithms and leveraging data structures to tackle complex challenges. Primarily proficient in Python with experience in C++ and a willingness to learn new languages.

Hands-on experience in library creation, full-stack development, game development, and research.

Technical Skills

- C++ (3 yr)
- Python (2 yr)
- HTML (1 yr)
- CSS (1 yr)
- JavaScript (1 yr)
- MySQL (1 yr)

Education

[99.65 / 99.95] – Australian Tertiary Admission Ranking

Achieved maximum selection rank of 99.95, including bonus points.

Subjects: Specialist Mathematics, Mathematical Methods, Physics, Chemistry, Biology.

[6.933 / 7 GPA] – Bachelor of Computer Science (Advanced), University of Adelaide

Notable Subjects: Object-Oriented Programming, Programming (MATLAB & C), Algorithms & Data Structures, Algorithm & Data Structure Analysis, Topics in Computer Science.

Industry Experience:

2025: Conducting research as part of the "Advanced Topics in Computer Science" course, focusing on a Facebook dataset where teachers discuss AI. Applying natural language processing (NLP) techniques to extract key insights, identify discussion topics, and refine Python programming skills.

2024: Researched Social Network Analysis, using Python to compare clustering algorithms. Created ground-truth clusters based on Star Wars lore and evaluated algorithm performance against these benchmarks.

Projects

Python Probability Library (Mar. 2025)
Available : GitHub | PyPi

Created a probability library to simulate games and empirically calculate outcomes, strengthening my mathematical and programming skills in preparation for quantitative trading roles. This project provided hands-on experience with Python, library development, and the application of probability concepts to real-world scenarios, offering deeper insights into the mathematical models used in the field.

Past Achievements / Awards

- Australian Mathematical Olympiad Committee Senior Contest 2019 – Honourable Mention
- Australian Intermediate Mathematics Olympiad 2018 & 2019 – Certificate of Distinction

Interests

- Problem-Solving: Passionate about tackling complex problems, particularly in combinatorics and probability.
- Bouldering: Enjoys problem-solving in physical challenges, dedicating 4–8 hours weekly.
- Learning: Enthusiastic about acquiring new knowledge and skills.

Communities

Competitive Programming Club