

Zachary Anderson

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Education

Bachelor of Mathematical and Computer Sciences
The University of Adelaide

February 2023 – November 2025

- 7.0/7.0 GPA including 99% in Programming (Matlab & C) and 100% in Mathematics IB

South Australian Certificate of Education
Saint Ignatius' College, Adelaide

January 2010 – November 2022

- Saint Ignatius' College Class of 2022 Highest ATAR of 99.80 (Selection Rank 99.95)
- SACE Merits in Chemistry (20/20), Physics (19.9/20), and Specialist Mathematics (19.9/20)

Work Experience

Academic Tutor | Sole Trader

January 2023 – Present

- Providing tutoring services primarily for computer science and SACE Stage 2 sciences/mathematics
- Managing business activities including finding customers and tracking finances/paperwork

Projects

Sudoku

December 2023 – Present

- Created sudoku web app with three difficulty modes using Vue
- Implemented sudoku validation, completion, and board generation algorithms in TypeScript
- Improved performance to be consistently under 1 second for all features

Minesweeper with Save States

September 2023 – October 2023

- Collaborated in a team of three people to recreate classic Minesweeper with various board configuration options and save states using SFML with C++
- Developed the object-oriented structure and implemented entity, tile, mine, and number classes

University of Adelaide Timetable Generator

January 2023 – February 2023

- Created web app to generate permitted class configurations for any selected range of subjects
- Implemented responsive user interface with HTML, CSS, and JavaScript
- Leveraged JavaScript for extensive input string parsing and scalable subject clash logic

Custom Spotify Shuffle Feature

October 2021 – December 2021

- Created web app to allow for custom shuffle parameters and weightings
- Re-engineered initial Python program to a JavaScript web app with an interactive HTML/CSS interface
- Implemented asynchronous web API calls and custom shuffle logic based on user input

Community Involvement

- Record completion of Ravi's Study Program including giving and receiving over 20 mock interviews (2024)
- 1 of 5 SA students selected for the ANU-AAMT National Mathematics Summer School (2022)
- Assisted EdTechSA Conference presentation about teaching mobile app development in Lua (2019)

Awards

- City of West Torrens Mendelson Scholarship (2023)
- University of Adelaide Principals' Scholarship (2023)
- Way College Prize and Medal for Highest Achievement in SA/NT Stage 2 Chemistry (2022)
- 10 Senior Year Speech Day Awards including Australian Defence Force Future Innovators Award (2022)

Languages

C++, C, Python, JavaScript, HTML & CSS