

Zachary Anderson

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Education

The University of Adelaide 7.0/7.0 GPA	February 2023 – November 2026
• Bachelor of Engineering (Honours) (Electrical and Electronic)	February 2024 – November 2026
• Bachelor of Mathematical and Computer Sciences	February 2023 – November 2025

Work Experience

IMC Trading <i>Software Engineering Intern</i>	November 2024 – January 2025
<ul style="list-style-type: none">Designed and programmed an algorithmic trading strategy with the highest PnL in the final trading simulationCompleted 1 week of market training and 1 week of algorithmic trading in a simulated multi-participant marketRedesigned and refactored a testing framework to use C++ to be more robust and extensibleUtilised low-level encoding and decoding to efficiently send type-safe data over a network	
insightfactory.ai <i>Product Engineer</i>	February 2024 – Present
<ul style="list-style-type: none">Added platform tracking analytics, providing 100,000+ data points for the data science and ML teamsOverhauled notifications using Azure Function Apps, and improved efficiency by introducing Redis cacheImplemented invoices page and internal auto-invoice generation tools, saving 10+ hours of work each month	

Projects

University Study Planner C++, Git	July 2024 – October 2024
<ul style="list-style-type: none">Developed C++ application to efficiently schedule weekly tasks to complete for university classesDesigned standard notation to automatically schedule recurring weekly tasks, in addition to one-off tasksProgrammed stochastic algorithm that prioritises tasks from an active pool based on due date, ensuring a unique but efficient weekly schedule	
Minesweeper with Save States C++, SFML, Git	September 2023 – October 2023
<ul style="list-style-type: none">Collaborated in a team to recreate Minesweeper with custom boards and save states using C++Led the planning for the object-oriented design and implemented entity, tile, mine, and number classesUtilised GitHub for effective version control and peer review whilst delegating responsibilities	

Awards & Achievements

• 15 subjects with over 95%, including 4 with 99%, and 100% in Mathematics IB	2023 - 2024
• City of West Torrens Mendelson Scholarship	2024
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• University of Adelaide Principals' Scholarship	2023
• Way College Prize and Medal for Highest Achievement in SA/NT Stage 2 Chemistry	2022
• Saint Ignatius' College Class of 2022 Highest ATAR of 99.80 (Selection Rank 99.95)	2022
• SACE Merits in Chemistry (20/20), Physics (19.9/20), and Specialist Mathematics (19.9/20)	2022

Community Involvement

• Competitive Programming Club Vice President	October 2024 – Present
• Computer Science Club Sponsorships Manager	October 2024 – Present
• Ravi's Study Program Participant (2023/2024) and Mentor (2024/2025)	November 2023 – Present
• 1 of 13 teams qualified to compete at the ICPC South Pacific Regional Finals	August 2024 – October 2024
• Computer Science Club Committee Member	March 2024 – October 2024
• 1 of 5 SA Students Selected for ANU-AAMT National Mathematics Summer School	January 2022

Languages & Technologies

C++, Python, Pandas, Numpy, Statsmodels, Git, Bazel, Gerrit, C#, React, TypeScript