William Tavers

(+61) 481-161-582 | williamtavers@gmail.com | Adelaide, SA, Australia | LinkedIn: William Tavers | Portfolio: William Tavers

PROFESSIONAL SUMMARY

A confident and results-driven Computer Science (Advanced) student specialising in artificial intelligence. Boasting a diverse portfolio spanning deep learning, algorithmic trading, and full-stack development. Deeply committed to continuous learning in software engineering and finance. Proven ability to educate, lead, and collaborate with diverse teams for project success.

EDUCATION

The University of Adelaide   **Adelaide, South Australia/Australia**
Bachelor of Computer Science (ADVANCED)   *Expected December 2025*

Clubs| Computer Science, Math, Engineering Society, Robogals, Society for Quantitative Analysis and Data

The Academy by Deloitte| Industry-aligned student experience program offering work-integrated learning opportunities, such as internships as consultants in strategy and artificial intelligence

TECHNICAL SKILLS

Back End| C++, Python, C, Java, R, NodeJS, MySQL   **Front End**| JavaScript, HTML, CSS   **Developer Tools**| Docker, Git, SVN, npm

PROJECTS

Deep Learning Engineer | Deep Learning-Powered Autonomous Robotic Car   Python | TensorFlow | **In Progress**
- Engineering an autonomous robotic car powered by Raspberry Pi and TensorFlow using machine learning and deep learning techniques. Integrated computer vision to deliver real-time responses to diverse road conditions, maximising safe navigation

Software Developer | Dijkstra's and Best-First-Search Pathfinding Visualiser   Python | **December 2023**
- Constructed a visualisation of Dijkstra's and Best-First-Search's pathfinding algorithms. Created a grid in pygame to find the shortest path between two points, and updated the cells with different colours, depending on their state (visited, unvisited). Allowed the user to randomly create a set of walls, and place the start and end nodes, before running the algorithm

Full-Stack Developer | YouTube Skeleton   TypeScript | Next.js | Express.js | Firebase | Google Cloud Platform | **December 2023**
- Developed a scalable cloud-based video sharing platform with functionalities akin to YouTube, leveraging Google Cloud Services and Firebase for efficient, real-time data management and video processing

Quantitative Developer | Algorithmic Trading Bot   Python, QuantConnect | **January 2023**
- A trading bot with a dynamic approach to maximise profits and limit losses. Incorporated a stop-loss feature and a breakout strategy that dynamically changes its lookback length. Validated via back testing over a three-year period

Full-Stack Developer | School Club Web Application   JavaScript | HTML | CSS | MySQL | **June 2023**
- (High-Distinction): Developed a comprehensive SQL-based web portal for managing school clubs. Incorporated features such as user registration, role assignments, event/post creation and management, notifications, and personalized media feeds

Game Developer |Object-Oriented Survivor Game   C++ | **April 2022**
- (High-Distinction): A classic Object-Oriented Programming computer game where the user must attack various oncoming enemies or run to survive. It is a single player game built with all the common features of Object-Oriented Programming

WORK EXPERIENCE & EXTRACURRICULAR

ROBOGALS   **Adelaide, South Australia/Australia**
Coding Educator, Marketing Manager, Schools Manager   *April 2022 – April 2023*
- Promoted Robogals through LinkedIn, Instagram, and Facebook, and connected with over 25 new schools

ADDITIONAL

Relevant Courses | Multivariable Calculus, Linear Algebra, Web & Database Computing, Computer Systems, Object-Oriented Programming, Business Finance, Statistical Prac I, Algorithm Design & Data Structures, ADS Analysis, Intro to Software Engineering

Boot Camps| Ravi's Study Program: 13-week intensive coding bootcamp

Awards | ATAR (Australian Tertiary Admission Rank) 96.45/99.95, Academic Excellence, Top of Subjects (STEM), 3rd Highest ATAR