

Key Competencies

- Strong communication and high attention to detail skills
- High level of abstract problem-solving skills
- Working cohesively in team environments
- Outstanding time management and leadership skills
- Exceptional abilities in handling high pressure situation and tasks
- Understanding of C and C++, with exposure to HTML, C#, and Python.
- Fluent mathematical understanding
- Excellent presentation skills

Educational Background

The University of Adelaide

Bachelor of Computer Science (Advanced)

2022 – Present

Pembroke School

South Australian Certificate of Education (SACE)

2017-2021

Technical Skills & Relevant Knowledge

Current Knowledge of C, C++

- Deep understanding of strings, arrays, classes and objects, inheritance, functions, pointers, loops, and statements.
- Strong understanding of Object-Oriented Programming
- Competitive programming experience
 - o Rapid development of a solution to a given problem

Exposure to multiple coding languages

- Completed work
 - o Website (HTML)
 - o Game development (C#) (Python) (C++)
 - o Completed a project in MATLAB

Took part in Puzzle Based Learning

- Able to apply and expand my abstract problem-solving skills that involve critical thinking, mathematics, and coding.
- Development of decision-making, logical thinking, multitasking, and troubleshooting.

Undertook Grand Challenges in Computer Science

- Able to present and communicate my ideas to an extremely high standard, detailing a solution to a societal challenge.
- Utilised python coding skills to process data and create graphical images.

Mathematical Skills

High understanding of the following

- Complex statistical analytical methods
- Functions
- Differentiation, integration, and its applications
- Vectors and parametric curves
- Complex numbers
- Deductive reasoning and mathematical proofs
- Linear systems and Gauss-Jordan elimination
- Matrix algebra
- Optimisation
- Determinants

Additional Skills

- Well-developed content creation and video editing skills
- Social media promotion and advertising skills
- Managed several small businesses in the past

Work Experience & Skills Gained

Australian Institute for Machine Learning (AIML) – Work Experience

2021 June

- Introduction to AIML and its day-to-day research activities
- Special focus on programming, deep learning
- Followed senior research associate Dr. Yasir Latif
- Developed python coding skills independently and worked successfully in a team environment with another student also interested in machine learning.
- Was able to interview several PhD students conducting research on machine learning and attend a few project presentations, including the NASA Rover Challenge.

Vice President of University of Adelaide Mechanical Keyboard Club

July 2022

Through an inaugural general meeting, I was elected as Vice President for the University of Adelaide Mechanical Keyboard Club. This club allows mechanical keyboard enthusiasts to share their passions and interests, connecting everyone together as a club community. As vice president, I organise events, manage logistics, and guide and assist other committee members to fulfill their roles to their greatest potential. This role has elevated my communication and management skills, as well as attention to detail.

Certificates

- First Aid Certificate – 2019
- Completion of Certificate III in Business - 2020

Achievements

- Completion of South Australian Certificate of Education (SACE) 98.05 ATAR
- 2021 – General Mathematics Subject Merit
- 2021 – Pembroke School General Mathematics Subject Prize
- 2021 – Pembroke School Research Project Subject Award
- 2019 – Pembroke Music Captain
- 2018 – AMEB Grade 7 Piano, Grade 4 Drums and Percussion

Referees

Dr. Yasir Latif

Senior Research Associate

Sentient Satellites Lab,

Australian Institute for Machine Learning (AIML)

Mob: +61481086883

Tel: + 61883139121

Email: yasir.latif@adelaide.edu.au

Mr Frank Mittiga

High School Teacher

Maths and English Tutor

Tennis Coach

Mob: +61438329568