

Shaun Gunawardane

Education

The University of Adelaide | 2020 – 2023 (Ongoing)

Bachelor of Electrical and Electronic Engineering (Honours) - 2nd year student

TAFE SA | 20th – 23rd JAN 2020

Introduction to Python Programming

Work Experience

ADFCGP Australian Defence Force Cyber Gap Program | JAN – DEC 2021 (Ongoing)

Institute: Australian Defence Force (ADF) / Australian Government Digital Emerging Talent Programs

Designed and implemented systems for various elements of cyber security. The program also provides mentoring by Digital Transformation Agency personnel and **membership with the Australian Computing Society**.

ASD Cyber Security and Robotics | 25th – 30th NOV 2019 | [Canberra ACT](#)

Institute: Australian Signals Directorate (ASD)

Conducted forensic examinations of hard drives, implemented encryption and decryption methods through programming, identified and analysed web vulnerabilities and email compromises and programmed robots using Arduino technology.

Competitions

International Collegiate Programming Contest (Division 2) | 23rd JAN 2021

- National Rank: **25** (Competitive Programming)

National Finalist – SUBS in Schools Technology Challenge | JUL 2016 – JUN 2017 | [Perth WA](#)

Hosted by: Re-Engineering Australia and the Australian Submarine Corporation (ASC)

CAD designing and Manufacturing of a Remotely Operated Underwater Vehicle. This was done using Arduino technology, electrical circuitry, and Autodesk Inventor software in a team of 5.

- National Final Rank: **3**
- State Final Rank: **1**

Projects

Chess | 1st AUG – 18th SEP 2020

C++ (Self-assigned)

A text-based chess game created through object-oriented programming. The game includes valid chess piece rules and a checking system.

Brick Breaker | 15th DEC 2020 – 4th JAN 2021

Java (Self-assigned)

A platformer game where the player must smash a wall of bricks by deflecting a ball off a slider. The game includes a speed change each time the ball collides with the slider. This was done utilising 2D graphics and object-oriented programming.

Additional Experience, Programs and Achievements

Graphics Designer and Video Editor for Open-Source Collective (OSC) | DEC 2020 - PRESENT

A Google Developer and Microsoft Learn Student Club – University of Adelaide

Designed graphics art, motion graphics, animations, posters, and banners for OSC advertising and production using Adobe After Effects CC.

O' Week Orientation Event for University of Adelaide | 1st – 5th FEB 2021

Welcomed and toured new university students around the engineering and computer science faculties. Designed / printed posters for OSC.

National Youth Science Forum Year 12 Program (NYSF) | 9th – 12th JAN 2019 | [Brisbane QLD](#)

I was the Rotary Club of Adelaide, scholarship recipient who was sponsored to participate in this residential forum which introduced STEM opportunities for students who have shown a strong interest in STEM.

Interview Panel Member for NYSF 2020 Selection | 21st – 22nd DEC 2020

Volunteered as an interview panel member for the selection of participants of "NYSF YEAR 12 PROGRAM 2020" JULY 2019.

Defence Industry Pathway Program (DIPP 13) | FEB – JUN 2018

Hosted by: Australian Submarine Corporation (ASC) and delivered by TAFE SA

CAD designed and manufactured scaled replicas of the *Air Warfare Destroyer* and *Collins Class Submarine* using Autodesk Inventor.

Languages and Technologies

Programming:	Java (Proficient)	Python (Experienced)	Arduino (Familiar)	Adobe:	Premiere Pro CC 2020 (Proficient)
	C++ (Proficient)	Verilog (Experienced)	MATLAB (Familiar)		After Effects CC 2020 (Proficient)