Education

- 2017 2019: secondary education at Australian Science & Mathematics School (ASMS), Adelaide, South Australia
- 2. 2020 Present: Bachelor of Computer Science at Monash University, Melbourne, Victoria

Skills

- Computer Programming Languages: Go, TypeScript/JavaScript, Python, Kotlin/Java, C/C++
- Document Markup Languages: HTML/CSS, TFX/LATFX, Markdown
- Databases: MongoDB
- Tools: Git, GitHub/GitLab, Docker, Kubernetes, CI/CD
- Platforms: Linux, Cloud Native, web servers/browsers, macOS, Windows
- Soft Skills: technical writing, presenting/public speaking, research, troubleshooting/debugging, explaining, collaboration/teamwork

Leadership Experience

- 1. May 2021 January 2022: General Representative at Monash University's Cyber Security Club (MonSec)
- 2. January 2022 June 2022: Secretary at Monash University's Cyber Security Club (MonSec)
- 3. June 2022 Present: Vice President at Monash University's Cyber Security Club (MonSec)

Projects

Open-Source

- cocainate is a cross-platform re-implementation of the macOS utility caffeinate that keeps the screen turned on either until stopped, for a set duration of time or while another process still runs.
- stalk is a cross-platform file-watcher that can run a command after each file-system operation on a given files or simply wait once until a file is changed.
- raker is a social media scraper that is interfaced via a server-side rendered HTML user interface (or a CLI), and is managed by a REST API and a NoSQL database.
- scr-web (and its scr-cli counterpart) is my previous attempt at building a full-stack social media scraper with Angular on the front-end, and Nest on the back-end.
- sp is my first attempt at building a Minecraft server plugin. This plugin adds the requirement that the player supplies the password (via a server command) before proper server interaction is allowed, and as long as the password isn't provided, the currently-unauthorized player is blinded and immobile.

Research

- As part of the FIT2082 unit, I contributed to an existing codebase, based on prior research by (Gange, Harabor and Stuckey, 2021) about Lazy CBS, their Multi-Agent Path Finding (MAPF) algorithm.
 - \circ My task was to modify the Lazy CBS codebase such that the algorithm also outputs the final set of constraints that is used to rule out paths, such that Lazy CBS is formally an Explainable Multi-Agent Path Finding (XMAPF) algorithm.
 - I learned how to enable *Python*-to-*C++* bindings, such that the compiled *Lazy CBS* codebase can be used as a Python-facing library for future projects.

Freelancing

• I implemented a fault-tolerant file back-up system that enables the continuation of file transferring from an variably-approximate point in time before the back-up disruption.