

SUMMARY

19-year-old, second-year Advanced Computer Science (R&D) student at the Australian National University and Software Developer at CSIRO. I am passionate about software and have been programming from a young age, as a result I have co-founded a software consultancy (Lambda Consulting). This is for the purpose of providing me experience with a variety of technologies and experience working in a team to develop software. I am driven and work hard with little supervision towards my goals; this is evident through my achievements thus far.

EDUCATION

Bachelor of Advanced Computing (Research & Development)	2021 - 2024	St Michael's College, Adelaide	2020
<i>Australian National University (ANU)</i>		<i>South Australian Certificate of Education</i>	
<ul style="list-style-type: none">Attending with National University Scholarship (Awarded for perfect entry score)7.0 GPA (All HD's) with 92% Weighted Average Mark		<ul style="list-style-type: none">99.95 ATAR (Highest possible ATAR)DUX/Valedictorian of cohort.	

SKILLS

Languages

- Most Proficient in: Python
- Familiar with: Java, Haskell, Dart, JavaScript (node.js)

Frameworks/Software

- Backend: Flask, SQL
- Frontend: React (Web), Flutter (Mobile)

EXPERIENCE

Software Developer	August 2021 - Present
<i>CSIRO</i>	
<ul style="list-style-type: none">Developed, tested, and deployed a data-processing pipeline which derives certain hydrological properties of the Murray Darling Basin (largest river system in Australia).This project was completed using Python and taught me the applications of many text-book algorithms and data structures.Due to the scale of the computation the pipeline has been written such that it is distributed on AWS compute using DASK.	
Software Consultant	October 2021 - Present
<i>Lambda Consulting (https://lambdaconsulting.com.au)</i>	
<ul style="list-style-type: none">Co-founded this business with friends with the aim of gaining experience in working alongside a customer to develop software solutions and to meet requirements.Working on our first contract, being a loyalty promotional app for a large bar in Canberra, Australia.	
Software Developer	March 2021 - Present
<i>ANU Rocketry</i>	
<ul style="list-style-type: none">Designed and managed the development of a new control system for the propulsion sub-team.	

PROJECTS

MORE: [HTTPS://GITHUB.COM/PSTefa1707](https://github.com/PSTefa1707)

5th Avenue Bar Membership App (Full stack – Python, Dart (Flutter), SQL, React.Js)	2021
<ul style="list-style-type: none">Membership and rewards app (Android & iOS) integrating with Square POS for a bar in Canberra.Currently in development, I am working across the full stack.	
Case Law Search Engine (Full stack – Python, PyTorch, React.Js)	2021
<ul style="list-style-type: none">Worked on a natural language search website for legal cases in a team of 5.Made design decisions, implemented database infrastructure, and worked to scrape tens of thousands of cases along with metadata to produce training data for a BERT based AI model.Implemented Google's PageRank algorithm on the citations within cases to assist in ordering cases by relevancy.	
Rocket Control System (Full stack – Python, JavaScript, React.Js)	2021
<ul style="list-style-type: none">Upon joining the ANU Rocketry team I realized the software that was being used was subpar and unreliable. I then designed and managed the development of a new control system.This control system operates wirelessly, contains error handling and reporting, logging, sequencing, and visualizes sensor readings.	
WhitelistPy Discord Bot (Python, SQL, AWS EC2)	2022
<ul style="list-style-type: none">Developed a discord bot to manage whitelisting for NFT releases. Is now running on over 100 servers handling thousands of requests.Used by the following projects: https://twitter.com/joinrepublic_re, https://twitter.com/DuckFrens	

AWARDS

South Australian Governor's Commendation – Academic Excellence Award	2021
South Australian Certificate of Education Subject Merit (x5)	2021
DUX of St Michael's College	2020
National Computer Science School Programming Challenge (NCSS) Top 1%	2019