

## Henry Routson

Henry\_Rou@ProtonMail.com

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Melbourne, Victoria

## Education

The University of Melbourne July 2021 - Nov 2024

Bachelor of Science, Major in Computing and Software Systems

76 average mark

Ballarat Grammar

Academic scholarship

VCE: Software Development, Specialist and Methods Mathematics, Chemistry and Physics

## Experience

2023

Aerospace and Rocket Engineering Society (ARES), The University of Melbourne

<https://www.linkedin.com/company/aresunimelb>

React and Python developer

2022

Queen's College IT support

## Open-source contribution

Cached File Explorer - in rust

- Fixed poisoned thread issue

Supabase Auth UI

- Allowed additional UI configuration options and added documentation

## Academics

Machine learning (Keras, scikit-learn)

- Created a stacked model including a neural network

IT Project (JavaScript / TypeScript, React, HTML, CSS)

- Increased code quality and redesigned stack visualisation for a Quicksort visualisation
- **Try Here!** <https://dev-aia.vercel.app/>

Models of Computation (Haskell)

- My Haskell code was chosen as the solution for numerous practice problems within a cohort of 600

Computer Systems (C)

- Functional memory allocator for operating systems
- Multi-threaded web server

Algorithms and Data Structures (C)

- Implemented a Quad-tree, Linked list, Dijkstra and A\*

Foundations of Computing (Python)

- Achieved overall 98%, one of the highest marks in the cohort

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## Personal projects

Scheduling app

- Firebase, Supabase, Flutter, React native, SQL, user authentication, Expo, Typescript, cloud functions

Leetcode Competitive Programming <https://leetcode.com/HenryRoutson/>

<https://github.com/HenryRoutson/CHelp> (C)

- Tracks dynamic allocations in C and assists in debugging
- Valgrind alternative

<https://github.com/HenryRoutson/autoheader> (Rust)

- Generates header files for C

## References

(With request)

<https://www.linkedin.com/in/pranavjayanty/>

<https://www.linkedin.com/in/ben-sampson-profile/>