

Henry Routson

Henry_Rou@ProtonMail.com

0419 108 859

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

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

NA

Leetcode competitive programming : <https://leetcode.com/u/HenryRoutson/>

Open-source contribution

Cached File Explorer - in rust : <https://github.com/conaticus/FileExplorer/pull/47>

- Fixed poisoned thread issue

Supabase Auth UI <https://github.com/supabase-community/flutter-auth-ui/pull/108>

- 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

Henry Routson

Henry_Rou@ProtonMail.com

0419 108 859

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

Melbourne, Victoria

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

<https://github.com/HenryRoutson/Soil-value-calculator> (Python)

- Matches fertilisers to soils using vector math

References

(With request)

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

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