

Henry Ou

Computer Science · University of Sydney

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Profile

Computer Science student building practical software and exploring data. Project experience spans backend APIs, web applications, automated testing, and analytical reporting.

Education

University of Sydney | Bachelor of Science

Feb 2026 - Present

Computer Science major · Statistics minor

Relevant studies: Programming, Data Structures and Algorithms, Discrete Mathematics, Interface Design, Data Science, Linear Algebra.

Selected Projects

Go Review AI | Python, FastAPI, KataGo | [GitHub](#)

- Built a Python workflow to analyse Go game records with KataGo, identify key mistakes, and generate review results.
- Developed FastAPI upload and analysis endpoints; tested core workflows using a mock engine and automated tests.

USYD Course Plan | JavaScript, HTML/CSS | [GitHub](#)

- Built and deployed a degree planner with course search, prerequisite mapping, progress tracking, and semester workload planning.
- Used JavaScript, HTML/CSS, and localStorage to save plans across visits; published on GitHub Pages.

DATA1001 Carbon Intensity | R, Quarto | [GitHub](#)

- Explored carbon-intensity patterns in the Our World in Data CO2 dataset using R.
- Created visualisations and a reproducible Quarto report with clean-energy recommendations.

Technical Skills

Programming Python, Java, JavaScript, HTML/CSS, R

Development FastAPI, REST APIs, automated testing, Git/GitHub

Data and tools Exploratory analysis, visualisation, Quarto, GitHub Pages