

# JERRY HONG

Email: jh1012037421@gmail.com

Phone no.: +61451561581

LinkedIn: <https://www.linkedin.com/in/jerry-hong-33a04a182/>

GitHub: [github.com/jerryhong21](https://github.com/jerryhong21)

Website: [jhong21.com](https://jhong21.com)

## PROFESSIONAL SUMMARY

Skilled programmer passionate in fields of **machine learning**, **systems automation engineering**, and **web-development**. I combine an expressive, empathetic personality with a rigorous **analytical mindset**, I excel at working in **team settings**, and approaching challenges with creativity and precision. Eager to leverage my skills in a practical, industrial setting, I seek **internship opportunities** where I can contribute meaningfully and grow within a dynamic team.

## PROJECTS

**Poker CFR** – AI model (**Python**) that learns to master a simplified version of poker through iterative self-play. The model uses the **Counterfactual Regret Minimisation** (CFR) algorithm to approach **Nash Equilibrium**, honing its decision-making process to achieve optimal play.

**Portfolio Website** - interactive portfolio website using **Typescript**, **Next.js**, **React**, **TailwindCSS** and **Framer Motion** to host innovative, **modern UI/UX**, and uses Resend API to enable in-app emailing features.

**ExamSnap** - **PDF imaging automation tool** built in **Python**, able to bulk screenshot Exam PDFs with an average runtime of 1 second per exam paper.

Visit my website [jhong21.com](https://jhong21.com) / GitHub to see all my other projects!

## WORK HISTORY

### Learnable - Content Writer (Physics)

Sydney, NSW • 01/2023 - Current

- Lead the design, testing, and implementation of sophisticated data collection and analysis systems using **JavaScript** for scrutinizing past exam papers, successful at identifying and addressing gaps in the question repository, its results are currently fully **implemented in a year-long product development** plan.
- Innovated automated screenshot script "**ExamSnap**" in **Python** to enhance analytical scalability.
- Worked in collaboration with tech team to refine a vast question database of **6000+ questions** spanning multiple subjects.
- Fore-fronted the **development, evaluation, and enhancement of 970+ questions** and educational content repository, incorporating **MySQL** queries in workflow.

## EDUCATION

### University of New South Wales

Kensington, NSW • Expected in 2025

#### B. Computer Science + Engineering (Mechatronics)

- **Dean's List**, 2023
- **WAM - 89**
- **Society Executive** - UNSW Society of Mechanical and Manufacturing Engineering (2024) & Subcommittee (2023)
- **Peer Mentor** - Society of Computer Science and Engineering (2024)
- **First place** – Jane Street Mystery Planet Competition
- **Scientia Scholarship Recipient**

### Cranbrook School

Bellevue Hill, NSW • 2022

#### High School Certificate

- **ATAR - 99.90**
- *Prefect*
- Research project "*Investigating Hall Effect on varying toroidal magnetic fields*" – received **STANSW Award – Gold** (2022)
- Recipient of **Proxime Dux Award** (2022)

## SKILLS

- Data Structures & Advanced Algorithms
- JavaScript & TypeScript
- Proficient in **JIRA**, **Confluence**
- React.js & Next.js
- CSS & **Tailwind CSS**
- HTML
- C
- C++
- Python
- Git
- PostgreSQL/ PLpgSQL