

# JIAMING WANG

## STUDENT

### CONTACT

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### EDUCATION

2021 - 2024

THE UNIVERSITY HIGH SCHOOL

- Student
- Studied AI & Algorithmics

2025 - Present

ELIZABETH BLACKBURN SCIENCES

- VCE student

### TECH STACK

- C++
- JavaScript/TypeScript
- Python
- React
- Next.js
- OpenGL
- Unity/C#
- x86-64 Assembly

### SKILLS

- Willingness to learn
- Independence
- High problem-solving skills

### PROFILE

I am a proactive student seeking a software engineering internship, backed by a solid background in languages like **C++**, **Python**, and **JavaScript**, as well as experience with frameworks like **React** and **Unity Engine**. My passion extends to areas like machine learning and **AI**. With a track record of independent projects showcased on my GitHub (<https://github.com/jiamingwangnet>) and website (<https://jiamingwang.net>), I'm eager to apply my skills, learn from seasoned professionals, and contribute meaningfully to a dynamic team.

### PROJECTS

- **WontonEngine** 2024  
Game engine built using OpenGL and C++
  - Studied the intricate features of OpenGL in order to effectively apply it in this project.
  - Developed a deep understanding of graphics pipelines in order to maximise the engine's efficiency.
  - Implemented advanced software architectural patterns, such as the Entity Component System, in C++.
- **Snake AI** 2023  
Q Learning neural network trained to play "Snake"
  - Developed a deep understanding of the mathematics behind neural networks.
  - Applied my mathematical knowledge to design a successful and working AI model.
  - Assessed the performance of the AI model in order to improve upon my design.
- **SnekOS** 2022  
Self-designed operating system
  - Investigated the various advanced technologies and concepts needed for building an operating system.
  - Applied my research and knowledge to assemble together a specialised operating system.

### AWARDS & CERTIFICATES

- Australian Informatics Olympiad Silver Award** 2024
  - Awarded a silver award (top 25%) after completing the competition.
  - Required deep understanding of various advanced algorithms.
- Oxford University Computing Challenge Distinction Award** 2024
  - Completed a speed-focused algorithmics competition.
  - Applied knowledge of algorithmics in a fast paced environment.
- Australian Music Examination Board Grade 8 Piano** 2023
  - Completed the AMEB Grade 8 comprehensive piano exam after vigorous preparation.