Ethan Wong

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EDUCATION

McMaster University   **Sep. 2023 – Present**
B. Eng, Computer Engineering   *Hamilton, ON*

- **GPA: 3.9/4.0**
  - Faculty of Engineering Award of Excellence (2023), Dean's Honour List (2024)
- **Coursework:** Data Structures and Algorithms, Electronic Devices and Circuits, Microprocessor Systems
- Member of Solar Car Strategies Team
  - Designed and implemented a Python algorithm to collect traffic data from the Overpass API for race simulations

WORK EXPERIENCE

Pedalheads   **Jun. 2023 - Aug. 2023**
Instructor   *Unionville, ON*

- Developed tailored teaching plans to instruct dozens of campers on safe and effective bike riding techniques
- Optimized class time by efficiently organizing equipment at the beginning and end of each day
- Maintained communication with campers to reinforce lessons and provided parents with progress updates

Old Village Construction   **Oct. 2021 – Dec. 2021**
Construction Worker   *Markham, ON*

- Collaborated with team members to complete home renovation projects safely and efficiently
- Ensured a safe workplace by organizing and maintaining equipment

PROJECTS

Snake [C++]

- Applied OOD principles in C++ to generate game items and maintain proper game mechanics

Agar.io [Python]

- Utilized OOP in Python to create CPU opponents and game items
- Developed and implemented functional respawn mechanics for both the player and CPU opponents
- Engineered a player-focused camera system

Pong [Python]

- Recreated Pong in Python, incorporating a CPU opponent and basic ball collision physics

Personal Website [HTML, CSS, JavaScript]

- Made a website for my personal portfolio at https://ewong5002.github.io/

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Standard First Aid and CPR, Class G Driver's License
- **Technologies:** Python, C, C++, HTML, CSS, JavaScript, Matlab, Microsoft Office (Word, Excel, PowerPoint)
- **Skills:** Teamwork, Time-Management, Communication, Organization
- **Interests:** Hockey, Reading