

Le Zhang

3A Honours Physics | Computing Minor

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Education

University of Waterloo (Undergraduate)

2021-Present

- Candidate for Bachelor of Science, Honours Physics
- Candidate for Computing Minor

Qualifications

- Excellent ability to build the program by **Python, C/C++**
- Master in web related programming **HTML, CSS, JavaScript** and **SQL**
- Capable of **CUDA programming** uses **PyTorch** for deep learning model training
- Familiar with developer tools of **Linux, Git, Shell Script, Vscode, PyCharm**
- Skilled in audio and visual editing by **Photoshop, Final Cut Pro, Logic Pro** and **Davinci Resolve**

Work Experience

- 1. Website Maintainer** Faculty of Engineering - University of Waterloo (Canada) 09/23-12/23
 - Maintain the content of the website contents by UW Development Kit with knowledge **HTML/CSS/JS**
 - Ensure website responsiveness and accessibility on various devices
 - Work with other students to maintain sites that is gained organized working style
- 2. Audio-visual Events Assistant** ITMS - University of Waterloo (Canada) 01/23-04/23
 - Recording and editing with professional video equipment/software **Final Cut Pro**
 - Develop basic equipment managements software construction by **Python**
 - Working with live PA system by **Multichannel Audio Mixing**

Projects

- 1. Data Analysis & Deep Learning by Python** 2023
 - Develop data processing programs by Python with **Numpy, Scipy, Matplotlib** and **PyTorch**
 - Using **CUDA programming** for deep learning model training
 - Using deep learning to predict the future trend based on existing data
- 2. Classic Electrical Games Development** 2023
 - Develop E-games with graphic user interface by **Pygame** module in **Python** library
 - Develop game logic processing modules in **C/C++** to boost data processing efficiency and build **API** that can be easily called in Python environments
- 3. Computational Physics Simulation** 2021 - Present
 - Build models using knowledge of physics and mathematics by **Python, C/C++**
 - Develop **muti-threads** algorithms to improve simulation efficiency
 - Validate simulation results and use visualizations by **Matplotlib**
- 4. Website Develop & Server Maintenance** 2017 - Present
 - Develop the website handle concurrency and parallelism by using **HTML, CSS, and JavaScript**
 - Set up **MySQL** database to handle the data processing and store
 - Deploy the server environment independently, e.g. **nginx** and **Python**

Activities and Awards

- Excellent Academic Standing | 2021-2023
- First Robotic Competition – General Motor industrial design award | 2018