

Le Zhang

3B Honours Physics | Computing Minor

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Qualifications

- Excellent ability to build and maintain the program by Python, C/C++ and git
- Capable of CUDA programming uses PyTorch for deep learning model training
- Skilled use of shell script to complete automated testing
- Master in web related programming HTML, CSS, JavaScript and SQL
- Experienced with PA (Public-Address) system, stage design, and backstage operation
- Skilled in audio and visual editing by Photoshop, Final Cut Pro, Logic Pro and Davinci Resolve

Experience

1. **Website Maintainer** University of Waterloo - Faculty of Engineering (Canada) 01/23-04/23
 - Update the content of the webpage to understand the operation mechanism of the website
 - 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** University of Waterloo - ITMS (Canada) 09/23-12/23
 - Recording with professional video equipment
 - Working with PA system
 - Events equipment managements software construction

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. **Website Develop & Server Maintenance** 2017- Present
 - Develop the website by using HTML, CSS, and JavaScript
 - Deploy the server environment independently, e.g. nginx and Python
 - Realize the parallel operation of multiple websites on a single server and Maintenance
3. **Computational Physics Simulation** 2021- Present
 - Build models using knowledge of physics and mathematics
 - Develop parallel processing algorithms to improve simulation efficiency
 - Validate simulation results and use visualizations

Education

University of Waterloo (Undergraduate) 2021-Present

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

University Skills and Strategies:

Science research / Science Lab / Experimental data analyzed / Formal lab report writing / Programming

Interests and Awards

- Excellent Academic Standing | 2021-2023
- First Robotic Competition industrial design award | 2018
- Best Editing Award at Chinese Youth Micro Film Festival | 2018