

## Chan Ngai Man, Peter

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### Career Goal

With a strong passion for learning, I aim to deepen my knowledge and develop a well-rounded skillset. My interest in programming grew from a meaningful final year project, motivating me to continue expanding my abilities through self-study and personal projects. These experiences have helped me build technical skills, problem-solving abilities, and adaptability. I am eager to further broaden my perspective and apply what I have learned in my future career.

### Education

**Hong Kong University of Science and Technology**

Bachelor's degree, BSc in Physics - Second Class Honors

Major cumulative grade average (MCGA): 2.647 out of 4.3

Clear Water Bay, Kowloon, Hong Kong

09/2020 - 09/2024

### Projects

#### Machine Learning in Weather Forecasting

Grade: A+

- Predicted future weather status based on past data at Hong Kong Wetland Park using Machine Learning
- Random forest regression were used for the prediction, parameters were also tuned by cross-validation

#### Mathematical Methods in Physics - Final Project

Grade: A-

- Calculated the values of quasi-energy by solving physics equations and plotted out the results

#### Simulation of Protein Folding using Monte Carlo Method

Grade: B+

- Constructed a simplified lattice protein model under the guidance of Professor Leung Pak Wo
- Simulated different folding process under different temperatures using Monte Carlo Method

#### Celestial Mechanics

Grade: B

- Simulated the Solar System with Mercury, Earth and Mars and a planar three-body problem
- Calculated and plotted their trajectories in a 2D figure at different conditions

#### My Personal Website

[peterchanpc.github.io/my-site/](https://peterchanpc.github.io/my-site/)

- My projects before graduation are all based on Python, you can check out my practices using HTML, CSS, JS and Vue.js on my website

### Skills

**Programming Language:** Python, JavaScript, C#, C++(beginner)

**Others/Framework:** Unity, HTML, CSS, Vue.js

**Language:** Cantonese (Native), Mandarin (Fluent), English (Fluent)

**Availability:** Immediate