Ho Tin (Timothy) Chan

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Skills

Programming Languages:	C, Python, JavaScript
Web Development:	HTML, CSS, Node.js, Flask
Databases & Query Languages:	SQLite, MySQL
Tools & Environments:	Arch Linux, Kali Linux, VMware
Markup & Documentation:	LaTeX

Projects

Personal Website - *HTML, CSS, JavaScript*   May 2025

- Built a personal website as a space to document all of the projects by using HTML, CSS, and JavaScript, and deploy it through Netlify

BMP Image Filter - *C*   Apr 2025

- Developed a C program in Visual Studio Code to apply grayscale, blur, reflect, and Sobel edge detection filters to 24-bit BMP images through direct pixel-level manipulation

Web Crawler - *JavaScript, Node.js*   Mar 2025

- Built a web crawler using JavaScript, Node.js, and Caddy to apply HTTP protocol concepts like request methods, headers, and status coeds

Certification

- CompTIA A+ (In Progess, Expected July 2025)
- Harvard CS50: Introduction to Computer Science (In Progress, Expected May 2025)
- IBM Data Science Specialization

Experience

Mathematics/Physics Teacher - *Pattison High School, Vancouver*   Sep 2024 - Apr 2025

- Instructing students in medium group setting, with class sizes ranging from 7 to 15 individuals
- Specializing in teaching senior high school mathematics and physics
- Handling students from various countries, i.e., Austria, China, Germany, Iran, Japan, Laos, Turkey, and Vietnam

Astronomy Laboratory Technician - *Douglas College, New Westminster*   Sep 2022 - Apr 2024

- Providing thorough explanation and demonstration on the usage of experimental instruments for Astronomy laboratory
- Assisting students to develop their critical thinking and data analytical skills with mathematics and data visualization
- Maintaining and managing delicate optical and electronic instruments as per the standard of the physics department

HVAC Estimator - *ECCO Supply, Burnaby*   Nov 2021 - Aug 2022

- Analyzing mechanical drawings, schematics, and specifications for industrial, commercial, and residential projects
- Representing 20 plus HVAC product vendors like Titus, Ruskin, Cook, Fantech, Panasonic, Lifebreath, Honeywell etc.
- Bid on several sheet metal residential projects worth over $1M, such as Two Gilmore Place and Oakridge Park

Education

Bachelor Degree of Science (BSc), Physics - *The Hong Kong University of Science and Technology*   2016 - 2020

- Specializing in pure mathematics and theoretical physics, with hands-on experience in mechanical, optical, and electronic laboratories

Associate Degree in Engineering - *PolyU Hong Kong Community College*   2014 - 2016

- Practical training in materials science, electrical and electronic engineering, and computer programming