

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Built a web crawler using JavaScript, Node.js, and Caddy to apply HTTP protocol concepts like request methods, headers, and status codes	

Certification

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

Experience

Mathematics/Physics Teacher - Pattison High School, Vancouver	Sep 2024 - Apr 2025
<ul style="list-style-type: none">Instructing students in medium group setting, with class sizes ranging from 7 to 15 individualsSpecializing in teaching senior high school mathematics and physicsHandling 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
<ul style="list-style-type: none">Providing thorough explanation and demonstration on the usage of experimental instruments for Astronomy laboratoryAssisting students to develop their critical thinking and data analytical skills with mathematics and data visualizationMaintaining and managing delicate optical and electronic instruments as per the standard of the physics department	
HVAC Estimator - ECCO Supply, Burnaby	Nov 2021 - Aug 2022
<ul style="list-style-type: none">Analyzing mechanical drawings, schematics, and specifications for industrial, commercial, and residential projectsRepresenting 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Practical training in materials science, electrical and electronic engineering, and computer programming	