

# Ding-Han (Sean) Yan

+1 (604) 977-6799 | Vancouver, BC (Able to Relocate) | [dhsyan@student.ubc.ca](mailto:dhsyan@student.ubc.ca) | [github.com/DHSYan](https://github.com/DHSYan) | [linkedin.com/in/dhsyan](https://linkedin.com/in/dhsyan) | <https://dhsyan.github.io/Portfolio-Website/>

## EDUCATION

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### University of British Columbia

*Bachelor's of Science, Honours Computer Science*

Sept 2022 — Dec 2027

Vancouver, BC

- Cumulative GPA: 4.33/4.33 | Dean's Science Scholar List

## EXPERIENCES

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### Software Engineer Intern

Ai-pu-yun Tech Co., LTD

July 2025 — Present

Taipei, Taiwan

- Tech used/trained on AWS, Vue.JS, playwright, typescript, Javascript, python, postgresql,
- startup, funding, business,
- backend, security,
- projects developed:

### Computer Science Teaching Assistant

University of British Columbia

September 2025 — Present

Vancouver, BC, Canada

- Task/Responsibility
- Role
- Academia type work

### Private CS Tutor

Self Employed

July 2025 — September 2025

Vancouver, BC, Canada

- Taught CPSC 121 Model of Computation/Discrete Math/Intro To math proof,
- CPSC 210/ Software Engineering
- Impact on student

### Mathematics & English Tutor

Meiko School

May 2023 — July 2023

Taichung, Taiwan

- Tutored students from Years 1–12 in Mathematics and English, adapting methods to individual learning styles.
- Raised students' Mathematics test scores from 46% to 96% through a strong pedagogical approach focused on clarity, intuition, and active problem-solving.

## PROJECTS

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### Youtube ([Youtube.com/@DHSYan](https://Youtube.com/@DHSYan))

November 2023 — Present

- Created Youtube video show casing how much passion I have for Computer Science.

### Multi-threaded Chat App in C

[github.com/DHSYan/Terminal-Chat-App](https://github.com/DHSYan/Terminal-Chat-App)

- Built a fully multi-threaded Chat Application in C using TCP/UDP sockets and POSIX threads, enabling concurrent handling of multiple users and real-time communication.
- Designed thread-safe mechanisms to support features such as private messaging, broadcast messaging, and peer-to-peer media transfer without blocking.
- Mastered low-level network and concurrency programming by implementing per-client thread management, synchronization primitives, and custom communication protocols.

### S-expression Functional Language Compiler

- Built a compiler and assembler for custom functional and assembly languages, simulating a full toolchain.
- Gained strong proficiency in manual memory management, low-level architecture, and algorithms.
- Applied deep understanding of stack organization, including frames, pointers, and heap allocation.

## SKILLS

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- **Programming Languages:** Javascript/Typescript, C/C++, Java, Python, Rust, Bash, Scheme, Assembly, HTML/CSS.
- **Technologies:** NodeJS, Jest, Docker, ExpressJS, Vue, MongoDB, Pandas, Git/Github (Action), Flask, Nix, Linux.