

# Ding-Han (Sean) Yan

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## EDUCATION

### University of British Columbia

*Bachelor's of Science, Honours Computer Science*

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

Sept 2022 — Dec 2027

Vancouver, BC

## EXPERIENCES

### Software Engineer Intern

MetaGuru (Subsidiary of Qisda Corporation)

September 2025 — Present

Taipei, Taiwan

- Engineered cloud infrastructure as part of the Epic Cloud development team, leveraging expertise in GCP.
- Designing and developed an AI agent to streamline company meeting digestion and automation processes.
- Resolved client Google Workspace (GWS) support tickets, delivering efficient and effective technical solutions.

### Computer Science Teaching Assistant

University of British Columbia

September 2025 — Present

Vancouver, BC, Canada

- Undergraduate teaching assistant for first-year computer science course: CPSC 121: Models of Computation.
- Led tutorials and labs, proactively supporting students via office hours to boost concept mastery.
- Mastered propositional and first-order logic, discrete mathematics, circuits, regular expressions, and DFAs/NFAs.
- Honed strong communication skills by clearly explaining complex concepts to diverse student groups.

### Private CS Tutor

Self Employed

July 2025 — Present

Vancouver, BC, Canada

- Taught CPSC 110: Computation and Programming, CPSC 121: Models of Computation, CPSC 210: Software Engineering.
- Cultivated advanced proficiency in Racket and Java to effectively teach and guide students in mastering these languages.
- Developed strong interpersonal skills by building rapport with students and providing constructive feedback.

### 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

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

November 2023 — Present

- Produced engaging YouTube videos showcasing a deep passion for Computer Science, focusing on Neovim, learning strategies, and effective note-taking techniques.

### 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

- **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.