

# Ding-Han (Sean) Yan

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## EDUCATION

### 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

### Software Engineer Intern

MetaGuru (Subsidiary of Qisda Corporation)

Sept 2025 — Feb 2026

*Taipei, Taiwan (Hybrid)*

- Architected intelligent AI agent using Python, Celery, and Redis to automate meeting summarization across multiple messaging platforms (WeChat, LINE, REST APIs), eliminating 5~7 hours of manual documentation weekly.
- Built PDF extraction tool using Google Vision AI API, streamlining workflows for 5 departments.
- Developed LDAP .NET middleware with SSO authentication, deploying containerized solutions via K3s, Nginx, Docker.
- Authored Model Context Protocol documentation, establishing practices that improved team efficiency by 80%.
- Led frontend development using C# and HTML, spearheading UI projects that enhanced experience for stakeholders.
- Managed Docker-containerized n8n automation servers, reducing deployment complexity and setup time by 70%.

### Computer Science Teaching Assistant

University of British Columbia

Sept 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

Jul 2025 — Dec 2025

*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 — Jul 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 pedagogical approach focused on problem-solving.

## PROJECTS

### Youtube

[youtube.com/@DHSYan](https://youtube.com/@DHSYan)

- Produced YouTube videos showcasing CS, focusing on Neovim, learning strategies, and effective note-taking techniques.

### Nix Config

[github.com/DHSYan/nix-config](https://github.com/DHSYan/nix-config)

- Engineered declarative Nix configurations ensuring identical OS environments across 8 systems, eliminating drift.
- Implemented infrastructure-as-code (IaC) automation for rebuilds with atomic rollback, reducing provisioning time.

### Multi-threaded Chat App in C

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

- Built multi-threaded chat application in C using TCP/UDP sockets and POSIX threads.
- Mastered low-level network and concurrency programming synchronization primitives, and protocols.

### S-expression Functional Language Compiler

- Built a compiler and assembler for custom functional and assembly languages, simulating a full toolchain.

## 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.