

Ryan Hui

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EDUCATION

University of Toronto

Toronto, Ontario

Bachelor of Science, Specialist in Computer Science, Minor in English — UTMCIIP Co-op Sep. 2023 – May 2028

- Data Structures, Computer Organization, Object Orientated Programming, SCRUM Framework

EXPERIENCE

IT Internship

June 2024 – Sep. 2024

Malvern College Hong Kong

Hong Kong

- School database and inventory management with a team of IT seniors
- Programmed an Arduino device in C++ for automated computer setup
- Designed and programmed a systemic XML datafields extractor with Python, to parse the data of 100+ staff
- Created a large API fetcher with Google AppScript, to fetch and organize 4000+ student data
- Optimized spreadsheet function to automate 1000+ lines of data

Machine Learning Data Training Volunteer

May 2025 – Present

RLEA at University of Toronto Mississauga

Mississauga, Ontario

- 1000+ phytolith identifications labeling

UofT AI Partnership Team Lead

Sep. 2025 – Present

UofT AI Club

Toronto, Ontario

- Leading teams in establishing connections between organizations and the student society.

PROJECTS

Paint Program | *Java, SCRUM, Git, Maven, Ollama*

Oct. 2024 – Nov. 2024

- Designed and implemented a paint program in Java with a SCRUM operating team
- Utilization of Object-Oriented design patterns, and Git version control with IntelliJ IDEA
- Prompt engineered Ollama 3 and created image generation methods

Simple Assembly Sokaban Game | *RISC-V, cpulater*

Oct. 2024 – Nov. 2024

- Designed and implemented a terminal Sokaban game in RISC-V assembly
- Created a \LaTeX user-guide for accessibility

Custom Terminal Shell | *C*

Jan. 2025 – April 2025

- Implemented a fully-functional command-line shell in C that supports built-in and external commands
- Allows foreground and background process execution, and sequential command pipelines
- Created a variable system with dynamic memory allocation
- TCP/IP client/server functionality for inter-process communication

UTmeet | *JavaScript, HTML, CSS, Next.js, MongoDB, Git*

Feb. 2025 – Present

- Full stack Hackathon Group project team lead
- A dynamic campus event board using open-source map cluster, with live event listing and pop-up pins
- User authentication via OAuth2 with Discord
- Front-end design with tailwind-CSS, and back-end database with MongoDB

TECHNICAL SKILLS

Spoken Languages: English, Cantonese, Mandarin

Languages: Python, Java, C, JavaScript, TypeScript, HTML, CSS, RISC-V, \LaTeX

Frameworks: React, Next.js, Node.js

Tools: Git, VS Code, PyCharm, IntelliJ, Vim, Bash, Arduino, Microsoft 360, Google Workspace