Ryan Hui

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EDUCATION

University of Toronto   Toronto, Ontario
Bachelor of Science, Specialist in Computer Science, Minor in English — UTMCIP 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 mass computer setup automation
- 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
- Google Sheet (Microsoft Excel adjacent) automation with functions

Machine Learning Data Training Specialist   May 2025 – Present
RLEA at University of Toronto Mississauga   *Mississauga, Ontario*
- Integrating machine learning into phytolith identification
- Phytolith image data management

PROJECTS

Paint Program | *Java, SCRUM, Git, Maven, Ollama*   Oct. 2024 – Nov. 2024
- Designed and implemented a paint program in Java with a mock 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
- Featuring a user-guide with accessibility in mind, created with LaTeX

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, working as 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, Ardiuino, Microsoft 360, Google Workspace