

VIHO HUANG

Hamilton, ON

☎ 647-512-6930

✉ viho.huang@gmail.com

🌐 [linkedin.com/in/viho-huang](https://www.linkedin.com/in/viho-huang)

🐙 github.com/HUANGV1

Education

McMaster University

Bachelor of Engineering in Software Engineering

Expected Apr 2028

Hamilton, ON

Notre Dame Catholic Secondary School

International Baccalaureate Diploma Programme

Graduated Jun 2024

Brampton, ON

Experience

Software Developer Intern

May 2025 – Aug 2025

Canadian Imperial Bank of Commerce (CIBC)

Toronto, ON

- Designed and authored technical design documents for several internal tools and microservices, detailing architecture, API flows, and system components to ensure consistency and scalability.
- Assisted with various development tasks, including bug fixes, feature testing, documentation clean-up, and code reviews, supporting overall team velocity and code quality.

Lifeguard

Jun 2024 – Aug 2024

City of Brampton

Brampton, ON

- Monitored pool to ensure the safety of all patrons, responding swiftly and effectively to emergencies.
- Supervised swimmers, enforcing rules and regulations to prevent accidents and promote safe water practices.

Assistant Teacher

Sep 2022 – Jun 2024

Spirit of Math Schools

Brampton, ON

- Facilitated student learning by providing targeted assistance with advanced mathematical concepts and homework assignments.
- Managed administrative responsibilities, including attendance tracking, homework submission, and lesson preparation.

Projects

Rocket Design Tool | *Python*

2025

- Input parameters like payload mass, fuel type, and delta-v to output an estimated rocket configuration.
- Implemented the Tsiolkovsky rocket equation to model realistic propulsion requirements.

Orbital Velocity Calculator | *Python*

2025

- Built a tool to calculate orbital velocity based on altitude using physics formulas.
- Practiced using math libraries and handling user input in Python.

Mars Rover Photo Explorer | *Python, NASA API*

2025

- Fetches real images from the Mars rovers using NASA's public API with filters for date, sol, and camera type.
- Built an interactive image viewer that lets users explore Martian terrain by mission metadata.
- Practiced working with APIs, data parsing, and dynamic content rendering.

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL

Tools: Git, VS Code, MATLAB, Microsoft Office, CAD

Other: Azure Fundamentals, GitHub

Awards

Ontario Scholar, McMaster Dean's Honour List, 4x Honour Roll @ Notre Dame, 4x Knight's Club @ Notre Dame, Spirit of Math Honours Graduate

Leadership / Extracurricular

Junior Masters Gavel Club Vice President

2022–2024

Brampton, ON

- As Vice President of the public speaking club, mentored younger and new members by offering constructive feedback and helping them grow in confidence.
- Completed the communicator manual and began the advanced manual after delivering formal speeches and participating in impromptu speaking activities, gaining strong communication and critical thinking skills.