

# VIHO HUANG

Hamilton, ON

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🐙 [github.com/HUANGV1](https://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.