

VIHO HUANG

Hamilton, ON - *Co-op available for 4, 8, or 12 months*

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🐙 github.com/HUANGV1

Education

McMaster University (11.8 GPA)

Expected Apr 2028

Bachelor of Engineering in Software Engineering

Hamilton, ON

Experience

Software Subteam Member - Mac Formula Electric

Oct 2025 – Present

McMaster University

Hamilton, ON

- Collaborating with the vehicle software team to develop data acquisition systems and performance monitoring tools.
- Integrating embedded systems with CAN protocols for telemetry and motor control modules.

Junior Associate - Analytics & Development

Sept 2025 – Present

D&I Integrators

Toronto, ON

- Support end-to-end cloud modernization and data migration projects, helping enterprise clients transition legacy systems to Snowflake-based architectures.
- Develop data pipelines and ETL workflows to optimize data ingestion, transformation, and loading into cloud warehouses.
- Build BI dashboards and data models to support reporting automation and executive analytics.
- Collaborate with cross-functional teams to design secure and scalable data solutions using Snowflake, Azure, and AWS services.

Software Developer Intern (Co-op)

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.

Projects

Formula 1 Race Predictor | *Python, scikit-learn, pandas*

2025

- Built a machine learning pipeline to predict F1 race outcomes using driver and track data.
- Implemented a Random Forest model and evaluated accuracy with test datasets.
- Processed large CSV datasets with pandas and visualized performance metrics with matplotlib.

Vehicle Data Dashboard | *Grafana, Python, Raspberry Pi*

2025

- Collected real-time vehicle sensor data using Raspberry Pi scripts.
- Sent data wirelessly to a cloud database and visualized results with Grafana dashboards.

Technical Skills

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

Data / Cloud Technologies: Snowflake, Azure, AWS, ETL Pipelines, Data Migration, Data Warehousing, BI Dashboards

Frameworks / Libraries: scikit-learn, pandas, matplotlib, PyTorch, OpenCV, Grafana

Tools: Git, VS Code, Raspberry Pi, Linux, REST APIs, GitHub

Embedded / Systems: CAN Protocols, Data Acquisition Systems, Telemetry, Microcontrollers

Awards

Ontario Scholar, McMaster Dean's Honour List, Spirit of Math Honours Graduate

Leadership / Extracurricular

Participant - MacChangers Program

Sept 2025 – Present

McMaster University

Hamilton, ON

- * Designing a McMaster student app integrating meal card functionality with digital ID, schedule access, and campus navigation features.
- * Conducting student feedback interviews and usability research to inform UI/UX and functional design.