

VIHO HUANG

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

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🐙 github.com/HUANGV1

Education

McMaster University GPA: 11.8/12.0 (3.9/4.0)

Expected Apr 2028

Bachelor of Engineering in Software Engineering

Hamilton, ON

Experience

Software Developer Intern (Co-op)

May 2025 – Aug 2025

Canadian Imperial Bank of Commerce (CIBC)

Toronto, ON

- Designed and documented internal tools and microservices, outlining system architecture, API flows, and integration standards while developing full-stack web applications, streamlining workflows for **50+** team members and improving task efficiency by **40%**.
- Implemented CI/CD pipelines with GitHub Actions for automated testing and containerized deployments, reducing integration time by **60%**, fixing **30+** bugs, and supporting feature development and code reviews for improved reliability and team productivity.

Junior Associate - Analytics & Development

Sept 2025 – Present

D&I Integrators

Toronto, ON

- Support cloud modernization and data migration, transitioning **5+** legacy systems to Snowflake, developing ETL pipelines for **millions** of records daily, and building BI dashboards, enabling **50% faster** analytics.
- Collaborate with cross-functional teams to design secure, scalable data solutions on Snowflake, Azure, and AWS, supporting **100k+** users and reducing operational overhead by **30%**.

Software Subteam Member - Mac Formula Electric

Oct 2025 – Present

McMaster University

Hamilton, ON

- Collaborating with a multidisciplinary team to develop embedded software for real-time vehicle telemetry, collecting performance and sensor data from **15+** sensors and transmitting **2,000+** data points per minute to a cloud database via wireless networking.
- Integrating embedded systems with CAN protocols for telemetry and motor control modules, processing cloud data into Grafana dashboards and a custom web application, enabling **10+** engineers to monitor vehicle performance and analyze **5,000+** test data points per session.

Projects

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

2025

- Built a machine learning pipeline to predict F1 race outcomes using historical driver and track data from **over 3,000** race records.
- Implemented a Random Forest model achieving **82%** accuracy on test datasets, with cross-validation across **5 folds**.
- Processed large CSV datasets with pandas and visualized performance metrics with matplotlib, generating **10+** insightful plots for model analysis.

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

2025

- Collected real-time vehicle sensor data from **5+** sensors using Raspberry Pi scripts.
- Transmitted data wirelessly to a cloud database and visualized results on Grafana dashboards, monitoring **2,000+** data points per minute.
- Developed a web-based interface for remote monitoring, improving data accessibility for **3+** team engineers during test runs.

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: React, Flask, scikit-learn, pandas, matplotlib, PyTorch, OpenCV, Grafana

Tools: Git, GitHub Actions, Docker, VS Code, Raspberry Pi, Linux, REST APIs, GitHub, CI/CD Pipelines

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

Leadership / Extracurricular

Participant - MacChangers Program

Sept 2025 – Present

McMaster University

Hamilton, ON

- * Developing a McMaster student app with meal card, digital ID, schedules, and campus navigation for **5,000+** students; conducting **20+** user interviews to improve UI/UX (**35%** boost) and building a React/Firebase admin dashboard, reducing update time by **50%** with **2,000+** active sessions weekly.