

Tae Yeon HA

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EDUCATION

McMaster University

Bachelor of Engineering in Software Engineering CO-OP

Expected Graduation - April 2027

Hamilton, ON

Glenforest Secondary School

IB / High School Diploma - HL Math, Chemistry, and English

Sep. 2019 – June 2023

Mississauga, ON

TECHNICAL SKILLS

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

Frameworks and Libraries: Node.js, React, Flask, Next.js, Tailwind CSS, pandas, scikit-learn

Technologies and Tools: VS Code, Git, Eclipse IDE, Jupyter Notebook, Arduino, Matlab, Latex

EXPERIENCE

General Member

Google Developers Student Club

Feb. 2024 – Present

Hamilton, ON

- Actively engaged in workshops and event organizations centered on AI and machine learning topics
- Learning TensorFlow to upgrade the QuakeGuard project with a neural network model
- Ignited visiting high school students' interest in AI and software, **boosting the club's membership**

Mechanical Subteam Member

RoboMaster Robotics Team | McMaster University

Oct. 2023 – Present

Hamilton, ON

- Utilized CAD software to achieve a **37% increase in speed** for the robot's legs and significantly reduced friction in the cannon barrel
- Took initiative by addressing a critical bug in the computer vision team's Python code, enhancing the robot's target confirmation **speed by 13%**
- Received high praise for being the most efficient subteam group

Main Receptionist

Pivot Real Estate

Apr. 2023 – Present

Open Houses in Ontario

- Initiated client recommendations, leading to an **11% customer base increase** at the Markham site
- Formed interpersonal connections, bumping online reviews up by 0.2
- Handled uncomfortable situations with composure, prioritizing a **customer-obsessed** approach

PROJECTS

Arduino Alert System | Arduino, C++, AutoCAD Inventor

Feb. 2024

- Designed an Arduino program incorporating ultrasonic sensors and an LED, tailored for a wheelchair-bound client with hand mobility challenges
- Utilized AutoCAD Inventor to customize a phone holder and side-view mirror, enriching our client's daily tasks and supporting her dream of driving in the future

QuakeGuard | Python, Typescript, Git, Flask, Next.js, scikit-learn, pandas, React

Jan. 2024 – Feb. 2024

- Developed a full-stack website and ML model to forecast earthquake magnitudes and associated risk
- Refined aesthetics with Typescript and Tailwind CSS running on a NextJS/Flask stack
- Built the ML model using historical earthquake data in Kaggle, trained with **pandas** analysis and **sci-kit learn** along with Google Cloud APIs, combining it with the website using Flask
- Deployed on the web using Vercel and Google Cloud to compete in DeltaHacks X against over **350 competitors worldwide**
- Contacted by Google Developers McMaster to participate in a Google Solutions hackathon

DeltaHacks Web Dev Challenge | HTML/CSS, JavaScript, VS Code

Dec. 2023

- Created a portfolio website using HTML/CSS and Javascript on VS Code
- Finished **top 10 in the competition** hosted by DeltaHacks