

# Tae Yeon Ha

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## TECHNICAL SKILLS

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

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

**Technologies and Tools:** Arduino, Git, VS Code, Eclipse, Jupyter Notebook, Matlab, Latex, AutoCAD Inventor

## EXPERIENCE

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### Google Developer Student Club

Feb. 2024 – Present

*McMaster University*

*Hamilton, ON*

- Participated in a hackathon for environmental and societal awareness
- Exemplified leadership skills towards building and finishing the "QuakeGuard" project
- Active member learning about machine learning models such as TensorFlow

### Mechanical Subteam Member

Oct. 2023 – Present

*RoboMaster Robotics Team | McMaster University*

*Hamilton, ON*

- Utilized CAD software to improve on 6 major robotic parts
- Demonstrated initiative by arranging and leading weekly meetings with teammates
- Improved time management skills working on club tasks while maintaining a high GPA
- Received high praise for being the most efficient subteam group

### Main Receptionist

Apr. 2023 – Present

*Pivot Real Estate*

*Open Houses in Ontario*

- Displayed collaborative skills in constantly stressful environments
- Formed interpersonal connections and a customer-obsessed mindset
- Handled uncomfortable situations with self-composed demeanor, establishing good first and lasting impressions

## PROJECTS

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### Wheelchair Alert System | McMaster University

Feb. 2024 - Present

- Alert sensor mechanism made using an Arduino Uno for a disabled client
- Designed a phone holder and rear-view mirror in AutoCAD Inventor

### QuakeGuard [🔗](#) | DeltaHacks X | GDSC Solutions Challenge | McMaster University

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 against over **350** competitors worldwide
- Contacted by Google Developers McMaster to participate in a Google Solutions hackathon

### Minesweeper | Game Development | Self Taught

Oct. 2023 – Dec. 2023

- Coded "Minesweeper" game from scratch in Java
- Making animations and transitions to create a more immersive player experience

## EDUCATION

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### McMaster University - Engineering I (Free Choice, 11.5/12)

Sep. 2023 – Present

*B.E. Software Engineering*

*Hamilton, ON*

### Glenforest Secondary School

Sep. 2019 – June 2023

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

*Mississauga, ON*