

Tae Yeon HA

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TECHNICAL SKILLS

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

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

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

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