

catherine chen

catherinejchen.com 

catherinejjchen 

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SKILLS

- **Languages:** Java, C++, HTML5, CSS3, JavaScript, Python, C#, ActionScript
- **Applications:** Unity, Photoshop, Illustrator, InDesign, Paint Tool SAI, Animate, Dreamweaver, Premiere Pro, AutoCAD

PROJECTS

- **ALIGN** Jan 2020
 - Monitored the y-coordinates of the user's head position using a **Face Tracking Library** and **JavaScript** to create an algorithm that determines when the user is slouching
 - Created a web application with **HTML**, **CSS** and **Bootstrap** to help users improve their posture by playing sounds whenever the user is not sitting up straight
- **ELEVATE** Jan 2020
 - Analyzed speech using **Node.js**, **RecordRTC**, and **Google Cloud API** to provide feedback
 - Developed a web application to help users improve their public speaking abilities
- **TAPPY CAT** Dec 2019
 - Implemented high scores and random environment generation with **OOP principles** in **Unity** using **C#** where players move the sprite to dodge obstacles by tapping the screen
 - Launched a mobile game on the Google Play Store and maintained a 5 star rating
- **WALL-E** Nov 2019
 - Designed and created a robot in a team that follows a path using **photoresistors** and **LEDs** to detect the track
 - Controlled motors and vehicle movements using C for **Arduino**
- **STREAM CIPHERS** Nov 2019
 - **Encrypted** and **decrypted** strings of text using **Base85 encoding algorithm** with C++

EXPERIENCES

- **TECH+ MENTORSHIP** Dec 2019 - Current
Organizer
 - Managed social media, creating assets on **Figma** and crafting post copy
 - Oversaw 30 mentor-mentee pairs by providing communication updates
 - Hosted bonding events to allow mentees to seek advice on excelling in the industry
- **SELF - EMPLOYED** May 2018 - Mar 2019
Freelance Graphic Designer
 - Developed logos, product labels and business cards for start-up companies using **Photoshop** and **Illustrator**
 - Created website design elements including favicons and banners to improve the marketing and outreach of the company
- **MILLENNIUM** Sep 2016 - Jul 2019
Chair
 - Led a team of **20** to organize **annual STEM conferences** with a focus on inspiring women in STEM
 - Helped 100s of students explore STEM and gain technological skills
 - Coordinated work ranging from marketing through workshops and information sessions to researching catering and venue options

EDUCATION

- **UNIVERSITY OF WATERLOO**
BASc Computer Engineering, Co-op
(Sep 2019 - Expected Apr 2024)
 - **Activities:** UWSTEM (Marketing Coordinator), UW Hip Hop, UW World Vision, Hack the North (Volunteer)
 - President's Scholarship

ACHIEVEMENTS

- **PARK MILLER AWARD** Jun 2019
Given to 1 graduating female student with athletic ability and team spirit
- **GE STAR AWARD** Apr 2019
Scholarship awarded to 4 students in CA and USA who excel in academics and community service
- **Associate Diploma of the Royal Conservatory of Music in Piano Performance** Oct 2017
Highest academic standing awarded by RCM