Amy Hu

📕 1B Computer Engineering
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☰ Skills

Languages	Java, C/C++, Python, HTML, CSS, JavaScript, Haskell, VHDL
Frameworks	jQuery, TensorFlow, Swing, Bootstrap, Hexo
Tools	Git, GitHub, LaTeX, IntelliJ Idea, Pycharm, VSCode, Figma, Excel

💼 Experience

Feb 2020 — Jun 2020	**Curriculum Developer Intern, RICHMOND HILL, Hatch Coding** › Developed games using **JavaScript** and **Python** to teach kids coding. › Authored curriculum material on programming fundamentals. `Python` `JavaScript`
Jan 2022 — Present	**Computer Vision Team Member, WATERLOO, Waterloo Aerial Robotics Group** › Implemented a program to classify images using a **deep neural network** in **TensorFlow** to identify 10 different types of object classes. › Collected datasets and accelerated the progress of dataset annotation by implementing a **Python** program and modifying a **JavaScript** project to convert dataset labels into yoloV5 format. `Python` `TensorFlow` `JavaScript`

🖥 Projects　Find more projects at : 🔗 trotyl.xyz/projects

Personal Website and Blog　　　　　　　　　　　　　　August 2020 - Present
○ github.com/trotyl15/trotyl-home　🔗 trotyl.xyz　🔗 blog.trotyl.xyz

-Self-taught **HTML** and **CSS** to create a website which includes my past projects and information about myself.
-Designed and developed custom components using **Hexo**, **JS**, and **CSS** for the blog pages.
-Deployed the website using **Github Page**, **Vercel** and **Cloudflare**, and have maintained it for one and a half years.

`HTML` `CSS` `JavaScript` `Hexo`

Schedule Builder | HackNYU project　　　　　　　　　　　　　Feb 2022
○ github.com/trotyl15/schedule-builder　🔗 schedulebuilder.tech

-Developed the program logic using **JavaScript** and **jQuery** to generate a schedule based on tasks entered.
-Implemented a schedule downloading function using **JavaScript** libraries, **DOM** manipulation and knowledge in **HTML** structure.
-Designed and developed the UX/UI using **Figma** and **Bootstrap**.

`HTML` `CSS` `JavaScript` `jQuery` `Bootstrap` `Figma`

Waterloo Learn Video and PDF Redirect　　　　　　　　Jan 2022 - Feb 2022
○ github.com/trotyl15/waterloo-learn-video-pdf-redirect　🔗 greasyfork.org/scripts/439394

-Wrote a user script using **jQuery** that enhances the user experience when using Waterloo Learn (UW's learning system).
-Used knowledge in **DOM** to designed the program structure, and published the script on Greasy Fork.

`HTML` `CSS` `JavaScript` `jQuery`

Local Area Network Chatting Program　　　　　　　　　　　Dec 2020
○ github.com/trotyl15/chatclient

-Built client application using knowledge in **Java sockets** and network programming to connect users to a LAN chatting program.
-Developed desktop application in **Java** to view and speak to all users as well as send private messages.

`Java` `Java Socket` `Swing`

The MadHouse Adventure Game　　　　　　　　　　　　Dec 2019 - Jan 2020
○ github.com/trotyl15/themadhouse

-Created a graphical interface for an RPG adventure game using **Swing** and developed game logic using **Java OOPs** concept.
-Used **PhotoShop** to create a visually appealing game design.

`Java` `Swing`

💡 Achievements

Cayley and Galois	**Honour Roll** and invited to the Canadian Mathematical Society (CMS) Math Camp
COMC	**Performance with Distinction** with a 92.61th percentile.

🎓 Education

2021 - 2026	**University of Waterloo**, 1B Computer Engineering, Candidate of BASc