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.
- Design 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 design 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