

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, Blender, Nomad Sculpt, Excel

EXPERIENCE

- Feb 2020** | **Curriculum Developer Intern, RICHMOND HILL, HATCH CODING**
Jun 2020
- Developed games using **JavaScript** and **Python** to teach kids coding.
 - Authored curriculum material on programming fundamentals.
- Python JavaScript
- Jan 2022** | **Computer Vision Team Member, WATERLOO, Waterloo Aerial Robotics Group**
Present
- 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

FEB 2020 - PRESENT

github.com/trotyl15/trotyl-home trotyl.xyz blog.trotyl.xyz

-Self taught **HTML** and **CSS** to create the website which includes my past projects and information about myself.
-Designed and developed custom components using **Hexo**, **JS**, and **CSS** for the blog pages.

HTML CSS JavaScript Hexo

SCHEDULE BUILDER | HACKNYU PROJECT

FEB 2022

github.com/trotyl15/schedule-builder schedulebuilder.tech

-Implemented the program logic using **JavaScript** and **jQuery** to generate a schedule based on tasks entered.
-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/...

-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 **Java sockets** to allow users to connect to the 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 graphical interface for adventure game using **Swing** and developed game logic using **Java**.
-Used **PhotoShop** to create a visually appealing game design.

Java Swing

ACHIEVEMENTS

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

EDUCATION

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