

Amy Hu

1B Computer Engineering

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trotly.xyz

trotly15

SKILLS

Languages	Java, C/C++, Python, HTML, CSS, JavaScript, Haskell, VHDL
Frameworks	jQuery, TensorFlow, Swing, Hexo
Modeling	3D Modeling, Live2D Modeling
Prototyping	STM32 Nucleo, Arduino
Tools	Git, GitHub, LaTeX, Blender, Nomad Sculpt, Live2D Cubism, Excel

EXPERIENCE

Feb 2020	Curriculum Developer Intern, RICHMOND HILL, HATCH CODING
Jun 2020	<ul style="list-style-type: none">Developed games using JavaScript and Python to teach kids coding.Authored curriculum material on programming fundamentals.
	Python JavaScript

PROJECTS

Find more projects at: trotly.xyz/projects

PERSONAL WEBSITE AND BLOG

FEB 2020 - PRESENT

github.com/trotly15/trotly-home trotly.xyz blog.trotly.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

WATERLOO LEARN VIDEO AND PDF REDIRECT

JAN 2022 - FEB 2022

github.com/trotly15/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

SIMPLE IMAGE CLASSIFIER

JAN 2022

github.com/trotly15/computer-vision-bootcamp

-Implemented a program to classify images using a **deep neural network** in **Python** to identify 10 different types of object classes.
-Optimized the accuracy of the model using **2D Convolution** and **Max Pooling** operations to 75%.

Python TensorFlow

LOCAL AREA NETWORK CHATTING PROGRAM

DEC 2020

github.com/trotly15/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/trotly15/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 BASc