

# 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"><li>Developed games using JavaScript and Python to teach kids coding.</li><li>Authored curriculum material on programming fundamentals.</li></ul>
	Python JavaScript

## PROJECTS

Find more projects at: [trotly.xyz/projects](https://trotly.xyz/projects)

### PERSONAL WEBSITE AND BLOG

FEB 2020 - PRESENT

[github.com/trotly15/trotly-home](https://github.com/trotly15/trotly-home) [trotly.xyz](https://trotly.xyz) [blog.trotly.xyz](https://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](https://github.com/trotly15/waterloo-learn-video-pdf-redirect) [greasyfork.org/...](https://greasyfork.org/...)

-Wrote a user script using jQuery that enhances the user experience when using Waterloo Learn (UW's web-based 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](https://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](https://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](https://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