

# Amy Hu

1B Computer Engineering

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trotl.xyz

trotl15

## SKILLS

|             |   |
|-------------|---|
| Languages   | Java, C/C++, Python, HTML, CSS, JavaScript, Haskell             |
| 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 | <b>Curriculum Developer Intern, RICHMOND HILL, HATCH CODING</b> <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> <div>Python</div> <div>JavaScript</div> |
| Jun 2020 |   |

## PROJECTS

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

### PERSONAL WEBSITE AND BLOG

FEB 2020 - PRESENT

[github.com/trotl15/trotl-home](https://github.com/trotl15/trotl-home) [trotl.xyz](https://trotl.xyz) [blog.trotl.xyz](https://blog.trotl.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

### SIMPLE IMAGE CLASSIFIER

JAN 2022

[github.com/trotl15/computer-vision-bootcamp](https://github.com/trotl15/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.

Python TensorFlow

### MUSIC PLAYER PROGRAM

DEC 2020 - JAN 2021

[github.com/trotl15/dubertunes](https://github.com/trotl15/dubertunes)

- Developed a local music player that can transfer files between application clients within LAN using Java.
- Added functions of add/remove music, sort music by date/alphabet, floating window, and transfer files between clients.

Java Java Socket Swing

### LOCAL AREA NETWORK CHATTING PROGRAM

DEC 2020

[github.com/trotl15/chatclient](https://github.com/trotl15/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/trotl15/themadhouse](https://github.com/trotl15/themadhouse)

- Create graphical interface for adventure game using Swing and developed game logic using Java.
- Using PhotoShop to create a visually appealing game design.

Java Swing

## ACHIEVEMENTS

|                           |  |
|---------------------------|--|
| CAYLEY AND GALOIS<br>COMC | <b>Honour Roll</b> and invited to the Canadian Mathematical Society (CMS) Math Camp<br><b>Performance with Distinction</b> with percentile of 92.61% |
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## EDUCATION

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