

# 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](https://trotyl.xyz/projects)

### PERSONAL WEBSITE AND BLOG

FEB 2020 - PRESENT

[github.com/trotyl15/trotyl-home](https://github.com/trotyl15/trotyl-home) [trotyl.xyz](https://trotyl.xyz) [blog.trotyl.xyz](https://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.

HTML CSS JavaScript Hexo

### SCHEDULE BUILDER | HACKNYU PROJECT

FEB 2022

[github.com/trotyl15/schedule-builder](https://github.com/trotyl15/schedule-builder) [schedulebuilder.tech](https://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](https://github.com/trotyl15/waterloo-learn-video-pdf-redirect) [greasyfork.org/scripts/439394](https://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](https://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](https://github.com/trotyl15/themadhouse)

-Created a graphical interface for an RPG 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