Amy Hu

🎓 **University of Waterloo** 2A Computer Engineering
📍 Waterloo, ON, Canada 📱 +1 (647) 996 0770 ✉ hu.amy@uwaterloo.ca 🔗 trotyl.xyz � trotyl15 in amyhu

☰ SKILLS

Languages	Java, C/C++, Python, HTML, CSS, JavaScript, Haskell, VHDL
Frameworks	Flask, FastAPI, jQuery, TensorFlow, Swing, Bootstrap, Hexo
Tools	Git, GitHub, LaTeX, IntelliJ Idea, Pycharm, VSCode, Heroku, Figma, Excel

💼 EXPERIENCE

May 2022 – Aug 2022

Web Developer, TORONTO, eButterfly
> Developed the 6.0 version of the company's website which migrates the website from Angular to **React** and finalized the server using **node.js**.
> Build the admin panel's pages according to an older Angular version in **React** and developed data listing feature and data filter.
> Finalize the **swagger documentation** in the company's server.
> Led a group of five people with another colleague in the e-butterfly lab project by providing helps and advises with the back-end and the environment setup. Self taught **Flask** and **FastAPI** during this project.

`React` `node.js` `TypeScript` `Python` `Flask` `FastAPI`

Present – Jan 2022

Computer Vision Team Member, WATERLOO, Waterloo Aerial Robotics Group
> 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.
> Leading a team of 4 as the project manager to design and develop a graphic interface for the drone's ground station using **Figma** and **PyQT**.

`Python` `TensorFlow` `JavaScript` `Figma` `PyQT`

Jun 2020 – Feb 2020

Curriculum Developer Intern, RICHMOND HILL, Hatch Coding
> Developed games using **JavaScript** and **Python** to teach kids coding.
> Authored curriculum material on programming fundamentals.

`Python` `JavaScript`

🖥 PROJECTS Find more projects at : 🔗 trotyl.xyz/projects

PERSONAL WEBSITE AND BLOG   AUGUST 2020 - PRESENT

⌂ github.com/trotyl15/trotyl-home   🔗 trotyl.xyz   🔗 blog.trotyl.xyz
-Self-taught **HTML** and **CSS** to create a website which includes my past projects and information about myself.
-Implemented the back-end side using **Python Flask** and stored the data using **PostgreSQL**, so that I can add new projects to the website dynamically.
-Designed and developed custom components using **Hexo**, **JS**, and **CSS** for the blog pages.
-Deployed the blog using **Github Page**, **Vercel** and **Cloudflare**, and the website on **Heroku**.

`Python` `Flask` `PostgreSQL` `HTML` `CSS` `JavaScript` `Heroku` `Hexo`

SCHEDULE BUILDER | HACKNYU PROJECT   FEB 2022

⌂ github.com/trotyl15/schedule-builder   🔗 schedulebuilder.tech
-Developed the program logic using **JavaScript** and **jQuery** to generate a schedule based on tasks entered.
-Implemented a schedule downloading function using **JavaScript** libraries, **DOM** manipulation and knowledge in **HTML** structure.
-Designed and developed the UX/UI using **Figma** and **Bootstrap**.

`HTML` `CSS` `JavaScript` `jQuery` `Bootstrap` `Figma`

MUSIC PLAYER PROGRAM   DEC 2020 - JAN 2021

⌂ github.com/trotyl15/dubertunes
-Developed a local music player that can transfer files between LAN application clients using **Java Socket**.
-Added functions of add/remove music, sort music by date/alphabet, and a floating window using **OOPs** concepts and Swing.

`Java` `Java Socket` `Swing`