

Amy Hu

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SKILLS

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| Languages | Java, C/C++, Python, HTML, CSS, JavaScript, Haskell, VHDL, SQL, MATLAB |
| Frameworks | Flask, FastAPI, jQuery, TensorFlow, Swing, Bootstrap, Hexo |
| Databases | MySQL, PostgreSQL, SQLite, Redis |
| Tools | Git, GitHub, Docker, \LaTeX , IntelliJ Idea, Pycharm, VSCode, Heroku, Figma, Excel |

EXPERIENCE

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|----------------------|---|
| May 2022 Aug 2022 | Web Developer, TORONTO, eButterfly <ul style="list-style-type: none">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.Built the admin panel's pages according to an older Angular version in React and developed data listing feature and data filter.Finalized 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. <div>React node.js TypeScript Python Flask FastAPI Docker</div> |
| Present Jan 2022 | Computer Vision Team Member, WATERLOO, Waterloo Aerial Robotics Group <ul style="list-style-type: none">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. <div>Python TensorFlow JavaScript Figma PyQt</div> |
| Jun 2020 Feb 2020 | Curriculum Developer Intern, RICHMOND HILL, Hatch Coding <ul style="list-style-type: none">Developed games using JavaScript and Python to teach kids coding.Authored curriculum material on programming fundamentals. <div>Python JavaScript</div> |

PROJECTS Find more projects at : trotyl.xyz/projects

PERSONAL WEBSITE AND BLOG

AUG 2020 - PRESENT

github.com/trotyl15/trotyl-home trotyl.xyz blog.trotyl.xyz

- Self-taught **HTML** and **CSS** to create the front-end of a website which includes my past projects and information about myself.
- Implemented the back-end side using **Python Flask** and stored the data by **PostgreSQL**, letting me to add new projects on the website dynamically.
- Developed a project preview widget using **JS** that shows the expected look of the project block before sending it to the server.
- Designed and developed custom components using **Hexo**, **JS**, and **CSS** for the blog pages.
- Deployed the blog through **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 by **JavaScript** libraries, **DOM** manipulation and knowledge in **HTML** structure.
- Designed and developed the UX/UI by **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