Аму Ни

University of Waterloo 2B Computer Engineering

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📑 Skills

Languages Java, C/C++, C#, Python, HTML, CSS, JavaScript, Haskell, VHDL, SQL, MATLAB

Frameworks ASP.NET, Flask, FastAPI, Unity, ¡Query, PyTorch, TensorFlow, Swing, Bootstrap, Hexo

MySQL, PostgreSQL, SQLite, Redis Databases

> Tools Git/GitHub, Docker, LTFX, IntelliJ Idea, Pycharm, VS/VSCode, SSMS, Railway, Figma



Present Jan 2022

Autonomy Team Lead, WATERLOO, Waterloo Aerial Robotics Group

- > Leading the autonomy team with 20+ members to deliver software that help the UAV derive information from the image, video, and coordinate inputs.
- > Overseeing the team in design and develop a graphic interface and data-telemetry system for the drone's ground station using Figma and PyQt5.
- > Assisted the development of a YOLOv8 and PyTorch based drone landing-pad detection model.
- > Collected custom datasets and accelerated the process of dataset annotation by implementing a Python program and modifying a JavaScript project to convert dataset labels into YOLOv5/8 format.
- > Implemented a program to classify images using a deep neural network in TensorFlow to identify 10 different types of object classes.

Python PyTorch TensorFlow JavaScript Figma PyQt5

Apr 2023 Jan 2023

Front-End Developer, NORTH YORK, Sparklease Inc.

- > Worked with RESTful API and ASP.NET MVC to develop user uploaded vehicle's detail page in ASP.NET and WeChat MiniApp.
- > Applied lease/finance monthly payment algorithm to implemented a calculator with various canvas widgets such as a draggable round progress bar.
- > Integrated and enhanced vehicle and user information upload features using JS and AJAX.
- > Improved the website's performance by 60% and optimized SEO by applying Lazy Load, eliminating unnecessary codes, enabling text compression, and using crawlable links etc.

ASP.NET MiniApp JavaScript REST API AJAX

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.is**.
- > 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.

React node.js TypeScript Python Flask FastAPI Docker

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. -Automated the blog deployment process by adding **GitHub Actions** into the pipeline.

Python Flask PostgreSQL HTML CSS JavaScript Heroku Hexo

LOCAL AREA NETWORK CHATTING PROGRAM

DEC 2020

github.com/trotyl15/chatclient

- -Built client application using knowledge in Java sockets, network programming, and Java OOPs concept to connect users to a
- -Developed desktop application in Java to view and speak to all users as well as send private messages.

Java Java Socket Swing