

# Andy Yun

 hongjunyun  
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## Skills

**Programming Languages:** C, C++, JavaScript, Python, Java, HTML, SQL, PHP

**Platform/Devices:** AWS, GCP, Git, Arduino, Linux, UNIX, MQTT, PLC, GPGPU, CUDA, JSON

**Framework/Library:** Node.js, Express.js, WebSocket, PySide2, TensorFlow, PyTorch, OpenCV, Anaconda

## Experience

### Software Developer Co-op

#### Stackpole International

Ancaster, ON, Canada

Jan/2022 – April/2022

- Built GUI, machine learning and telemetry software
- Used **Python, PySide2, OpenCV, TensorFlow, and PyTorch** for Omron PLC and GPU servers
- Combined GUI, Machine Learning, and Networking stacks to assist production line workers to detect defects in the product
- Applied knowledge related to the memory address, binary numbers and other mathematical knowledge while programming for PLC controllers through the ethernet connection

### Full Stack Developer

#### TEMS Academy

Waterloo, ON, Canada

Oct/2020 – June/2021

- Designed the architecture of a **web platform** for the tutors and students to communicate on
- Reduced communication overhead by 50%, allowing the tutors to focus on lessons
- Constructed the web platform using **PHP/JavaScript/HTML/CSS** for the front end
- Used **Node.js/MySQL/Express.js/WebSocket** running on **GCP/AWS** for the back end

### Software Developer Co-op

#### The Hacksmith

Kitchener, ON, Canada

Oct/2019 – Jan/2020

- Wrote Arduino and web-based codes for the products for the company's internal use
- Developed several pieces of software using multiple libraries and languages such as **Python/Arduino/Node.js**
- Communicated and worked with the supervisor and coworkers both on-site and remotely
- Created the website and back-end applications on **Linux/UNIX/Windows** environment using **JavaScript/HTML/SQL**

## Projects

### Logic.Gate Tutoring Platform Project

Waterloo, ON, Canada

Sep/2021 – Ongoing

- Designed and in the progress of developing an online platform for programming education
- Used **HTML, CSS, JavaScript, Node.js, PHP, and SQL** for prototyping
- Involved team working environment, **GitHub** for collaboration, and planning
- I have directed and implemented the project as both **team leader** and **lead developer**

## Education

### University of Waterloo

Candidate for Bachelor of Applied Science in Computer Engineering

Waterloo, ON, Canada

Sep/2021 – Current

- 2021 University of Waterloo President's Scholarship
- 2021 Waterloo Catholic DSB International Student Scholarship
- Relevant courses: ECE 106, ECE 108, ECE 124, ECE 140, ECE 150, ECE 198