Andy Yun

in hongjunyun
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Skills

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

- Built GUI, Machine Learning and telemetry software
- Utilized **Python**, **PySide2, OpenCV, TensorFlow**, and **PyTorch** for Omron PLC and **GPU** servers
- Combined **GUI**, **ML**, and **Networking** stacks to assist 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
- Reduced the communication overhead between PLC and Host computer by 30% by using a caching mechanism

Ancaster, ON, Canada
Jan/2022 – April/2022

Full Stack Developer🔗
TEMS Academy

- 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** and **CSS** for the front-end
- Utilized **Node.js**, **MySQL**, **Express.js** and **WebSocket** running on **GCP** and **AWS** for the back-end

Waterloo, ON, Canada
Oct/2020 – June/2021

Software Developer Co-op
The Hacksmith

- Wrote Arduino and web-based codes for the products for the company's internal use
- Developed software using libraries and languages such as **Python**, **Arduino**, and **Node.js**
- Communicated and worked with the supervisor and coworkers both on-site and remotely
- Reduced memory usage by 17% from applying optimization techniques in **C/C++**
- Created the website and back-end applications on **Linux**, **UNIX** and **Windows** environment using **JavaScript**, **HTML** and **SQL**

Kitchener, ON, Canada
Oct/2019 – Jan/2020

Projects🔗

Logic.Gate Tutoring Platform Project🔗

- 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**

Waterloo, ON, Canada
Sep/2021 – Ongoing

CanadaHousing Platform Project

- Designed and am in the progress of developing a platform for finding sublets
- Utilized **JavaScript**, **Node.js**, **Python**, and **SQL** for development
- Involved team working environment, **GitHub** for collaboration, and planning
- Participated and implemented the project as a **backend developer**

Waterloo, ON, Canada
May/2022 – Ongoing

Education

University of Waterloo
Candidate for Bachelor of Applied Science in Computer Engineering

- 2021 University of Waterloo President's Scholarship
- 2021 Waterloo Catholic DSB International Student Scholarship

Waterloo, ON, Canada
Sep/2021 – Current