Andy Yun

in hongjunyun
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Skills

Programming Languages: C, C++, JavaScript, Python, Java, HTML, JSON, SQL, PHP
Platform/Devices: AWS, GCP, Git, Arduino, Linux, UNIX, MQTT, PLC, GPGPU, CUDA
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