SUNNY LAN

SOFTWARE ENGINEER

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github.com/sunny-lan

sunnylan.tk

WORK EXPERIENCE

Web developer (co-op)
September 2017 - February 2018
Principle Inc. - Richmond Hill, ON
- Built part of admin interface, written in **XSLT**, **PHP**, and **SQL**
- Automated product testing for GuestDeck (ticket selling platform) with web scraping skills
- Designed mobile and web UI (including mockups) for task tracking app

CCC / Java Tutor
March - June 2019
Triway Education - Richmond Hill, ON
- Taught Java and CCC prep classes in private and group formats
- Prepared and kept lessons organized across 5 classes of varying proficiency levels

Languages:
Javascript, Typescript, Java, C/C++, PHP, SQL, C#, Python, HTML/CSS/SCSS
Frameworks/Technologies:
Node.js, React & Redux, React Native, Unity (C#), OpenCV, Git
Technical skills:
Web scraping, Algorithms/Optimization & Data structures (contest programming), Database design

PROJECTS

Ksut
July - August 2018
Node.js, Javascript, Websockets, React + Redux, Redis, C++ (ESP8266)
- IoT service allowing users to securely control devices (such as a garage door) across the internet
- Server is written in **Javascript** and backed by **Redis**. Communicates through **WebSockets** with a wifi module which monitors and controls whether the door is open
- Web interface is built using **React/Redux**. It includes a simple API allowing users to write custom widgets controlling their own devices.

Website for The Greenhouse Project
November 2017 - February 2018
PHP, MySQL, SCSS
- Site allowing Greenhouse Project supervisors and members to track volunteer hours and plant growth. Also includes a easily customizable gallery and homepage
- Mentored peer in all development steps, from **UI and database design** to coding and testing
- Site organized into **PHP** components allowing easy reuse of elements such as forms and sidebars

AWARDS

CCO Silver Medallist (May 2019) and CCO Bronze Medallist (May 2018)
- Ranked Top 15 in Canada

PicoCTF 2nd place in Canada (November 2018)
- Cybersecurity competition, with challenges involving topics like web exploitation and reverse engineering

EDUCATION

Candidate for Bachelor of Software Engineering, University of Waterloo (2019 - present)
- Finished previous term with an average of 94% (GPA 4.0)