ANDY REN

Candidate for BASc in Computer Engineering at the University of Waterloo, Class of 2023

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EXPERIENCE

Web Analyst
Agriculture and Agri-Food Canada (AAFC)

📅 January 2019 – April 2019 📍 Ottawa, Canada

- Developed innovative web solutions using **JavaScript**, **HTML** and **CSS** for intra-departmental clients on the AAFC **SharePoint** platform
- Constructed string search/scrape methods in **PowerShell** with use of the **SharePoint API** to increase functionality for a back-end script that populates a monthly report on departmental **SharePoint** usage statistics
- Communicated with clients regularly to build practical, maintainable solutions and ensured that sensitive information was properly handled per the **Access to Information Act** and **Privacy Act**

Student Senator
Ottawa Carleton District School Board

📅 August 2017 – August 2018 📍 Ottawa, Canada

- Elected to represent the interests of **1,200 high school students** at the **school board** and **parent council** level
- Helped plan and execute a comprehensive board-wide symposium on graduate exit outcomes, based on the OCDSB 2015-2019 Strategic Plan
- Assisted in the integration of a school-wide mental health initiative named the **"Butterfly Effect"** involving 1000+ students and staff incorporating OCDSB graduate exit outcomes
- Served as a student stakeholder on the **Committee of the Whole**

PROJECTS

CareerCounsel
github.com/liaocanada/cuhacking-app

📅 February 2019 📍 CUHacking 2019

- Developed a **ReactJS** web application for CUHacking 2019 that retrieves **Indeed** listings using a **JSON string parsing/scraping algorithm** that summarizes job postings based on user inputted search parameters
- Built an Express.js server using **Node.js** framework to enable server-side script execution and **CORS**

Polynomial Calculator
github.com/terraglacium/polycalc.js

📅 February 2019 - March 2019

- Built a calculator that converts string polynomials into object data structures usable for polynomial operations (i.e add, multiply, differentiation, integration) by a set of **JavaScript** scripts
- Utilized **Node.js** framework and **npm** libraries to emulate a CLI user interface

SUMMARY

- Proficient experience with functional scripting and programming languages (i.e. **JavaScript, C++, PowerShell**)
- Practical experience with micro-controllers and integrated circuit design (i.e. **Arduino, VHDL**)
- Interest in embedded systems, Internet of Things, and biotechnology

SKILLS

Languages

JavaScript   C++   PowerShell   C   VHDL

Frameworks and Tools

Arduino   ReactJS   Node.js   jQuery   SharePoint   LaTeX

ACTIVITIES AND SOCIETIES

🎓 **ECE Academic Representative**
Elected to represent engineering cohort twice as a First-Year **Academic Representative**

🎵 **Lifelong Musician**
Played **Piano**, **Alto Saxophone**, and **Mallet Percussion** throughout primary and high school

AWARDS

Walrus Award
Earl of March Secondary School

📅 June 2018

- Awarded to the student who, over the years at the school, has made an important, continual, and perhaps often unseen contribution to the school community