WILLIAM WEN

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CERTIFICATIONS

Stanford Coursera Sept. 2019
Machine Learning Certificate

SKILLS

LANGUAGES: *C++, Octave, HTML, CSS, Javascript, Java, SQL*
TECHNOLOGIES: *Git, ReactJs, Anaconda, MySQL, Dva.js*

EMPLOYMENT

HIKEDU INC. | JS, React, Dva.js
Software Engineering Intern May 2019 — Aug. 2019

- Designed dynamic web pages to automate the international exchange approval process for Lanzhou Jiaotong University (17000 students) using **React** and **Dva.js** to communicate with backend APIs.
- Created an exchange program management system for Zhejiang University using **Ant Design**, a React library.
- Redesigned the UI for the landing page and teacher's dashboard for all schools using **React** and **CSS.**

HATCH LTD. | SQL
Engineering Intern July 2017 — Aug. 2017

- Drafted reports on methods for storing grid energy during off-peak hours for a proposal requested by Bruce Power.
- Researched the cost/benefits of 30 Small Modular Reactors (SMRs) from various countries for a project that could bring power to isolated communities in Canada's territories.
- Managed SMR data within relational databases using **MySQL** to automate query requests.

TORONTO HACKER CLUB | TORONTOHACKER.CLUB
Event Coordinator May 2017 — June 2018

- Organized events that promote technology and innovation that average **200+** participants.
- Acted as a point of contact for team members, food vendors, partners, and corporate sponsors.
- Organized THacks2, a 24 hour hackathon with **350+** participants, sponsored by companies like Google and RBC.

PROJECTS

ACTIVE ARDUINO ALARM CLOCK | C/C++ Oct. 2018 — Dec. 2018

- Developed an alarm clock that forces users to solve math problems to wake themselves up.
- Implemented a timer, stopwatch, world clock, and setTime function in **C++** using the **Arduino Platform.**
- Interfaced an Arduino with an LCD screen, shield, buzzer, buttons, resistors and a breadboard.
- Synced the DS 1307 Real Time Clock (RTC) module to the RTC library to improve passive time measurements.

CANVASTO: YOUR VIRTUAL TORONTO | Java, SQL Apr. 2017 — June 2017

- Designed a game that challenges players to manage a simulated Toronto with **Java** using **Android Studio.**
- Presented the idea to employees managing Toronto's open source databases and was ranked Top 3.
- Parsed the cities "Festival & Events" open data **JSON** file and managed the data within relational databases using **MySQL** to implement a function that rewards players for attending real-life events.

EDUCATION

University of Waterloo | OOP, C/C++ Sept. 2018 — Apr. 2023
Bachelor of Software Engineering

- Relevant Courses: Programming Principles, Data Abstraction and Implementation