Heng Lu

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SKILLS

- JavaScript • Java
- VUE • C++ • C
- HTML5 & CSS3 • Git
- Latex • Arduino

Technology Training In Progress - Udemy.com

- Learn and Understand NodeJs
- The Python Mega Course
- Machine Learning A-Z

LINKS

Github://github.com/leoluheng
Devpost://devpost.com/LeoLuHeng
LinkedIn://LeoLuHeng

INTERESTS

- Mini-marathon
- Tennis
- Piano

ACTIVITY

Canadian Chinese Model United Nations Conference - 2017
– Best Chair

G-sect Senior Badminton Tournament - 2017
– School Champion

ME to WE - Volunteer in Tanzania
– Arusha, Tanzania

EDUCATION

UNIVERSITY OF WATERLOO
Bachelor in Software Engineering
2017 Sep - Present
President's Scholarship of Distinction

EXPERIENCE

JUNIOR JAVA DEVELOPER
Guangdong Eastone Century Technology Co., Ltd. - Summer 2018
— Having a great coop experience at Etone Tech providing technical support for China Mobile. Played a role of server-side developer using JFinal in one project. Packaged apis for utilizing GIS in VUE components in a second project.

- Elected as leader in a group of three, responsible for demand analysis, selection of technology, and API interface design of a web app.
- Led the team and joined the development of the web app prototype.
- Performed my duty to ensure a smooth handover of work arrangement and progress via documentation and extensive discussion.

PROJECT

VMAIG BLOG SYSTEM REMAKE
Web Development - Summer 2018
— A playground to get familiar with web development, frontend construction, communication with backend, and how to query a database; JS, Java, MVC model, JFinal(Spring), VUE...etc

- My entry point in Web Development and the key practice for me to succeed in my first coop.
- This project is done three different times in different styles to make sure the understanding of backend and frontend template engine / framework, how to design and write, and why a SPA.
- Completely original backend using JFinal - MVC style backend framework.
- Constantly contributing to this project repo provides me with sufficient understanding and dexterity to return on web development.

M.E.P. (MICROWAVE EMPOWERMENT PROJECT)
In-school Project - October - November 2017
— A group-based project that aimed to enhance a microwave with a smart cooking assistant that visually recognizes your delicacy. Developed mainly using Google Cloud Vision API, Arduino, and Raspberry Pi.

- Completely responsible for the user-friendly **menu display** of the microwave with embedded **clock functionalities**.
- Implemented the **serial communication** between **Arduino** and **Raspberry Pi**.
- Learned and implemented Google vision **API**.
- Prototyped and co-authored the **metal detector algorithm** and its implementation circuit.
- Learned **server and communication** basics and how to program with **Arduino Ethernet Shield**.

TRENDCAST - HOT TECHNOLOGY PREDICTOR
A YHack Project - December 2017
— A web app built with React and Python that uses LSTM networks to predict the next trending AI and Blockchain technologies. Elegant visualization of past and predicted trends.

- Learnt and immediately applied **Python** to build back end.
- Developed the **back end algorithm** that processes and transforms large amounts of **web source data** to datasets for **visualization** in the front end.
- Implementing **data parsing and classification** using csv module.