

SOFTWARE ENGINEERING UNDERGRADU

Toronto, Canada

□ (+1) 289-834-0879 | 🗷 liuc40@mcmaster.ca | 🌴 cherayliu.github.io | 🖫 CheRayLiu | 🛅 CheRayLiu

Technical Skills

Language Python · Java · C/C++· Javascript · Ruby · HTML/CSS Frameworks Ruby on Rails · Express.js · Tensorflow · Django

Tools and Others Git · GraphQL · Node.js · jquery · AWS · PostgreSQL · SQLite

Education

McMaster University

Hamilton, ON, Canada

B.ENG IN SOFTWARE ENGINEERING

Sept 2016 - April 2020

- GPA: 3.75 | Dean's honour list
- Relevant Courses: Data Structures and Algorithms, Software Design, Linear Algebra, Discrete Mathematics I/II
- · Machine Learning Course Certificate awarded by Stanford University

Experience _

FamilyAsyst Tainan, Taiwan

SOFTWARE ENGINEER INTERN

May 2018 - Oct 2018

- Designed and implemented a user interface for the AERMOD software (By EPA) using **Python Tkinter** that allows users to simulate dispersion of air pollutant emissions from stationary industrial sources with Google Earth
- Implemented function that allows users to input or use data files to specify different sources, terrain and meteorology information for dispersion simulations
- Designed and implemented test plans and test cases for the user interface

Projects

HeyTensor

HTTP://HEYTENSOR.HEROKUAPP.COM/

2019

- Developed a Deep Learning web application that provides users a chatbot for entertainment purposes
- Trained model based on massive data from online forum (Reddit) comments using Tensorflow and developed application using Node.js with socket.io
- Developed with: Python, SQLite, Tensorflow, Node.js, Express.js, socket.io, jquery

QuickShop

HTTPS://GITHUB.COM/CHERAYLIU/QUICKSHOP

2019

- Developed **GraphQL API** using **Ruby on Rails** that allows users to access and manipulate product data through queries and mutations to perform actions on product inventory
- · Developed with: Ruby, Ruby On Rails, GraphQL, PostgreSQL

TrawlExpert

TRAWL.SCHANKULA.CA/TRAWL/

2018

- Developed a Java web application that provides research tools such as range searches, cluster map, plotter map, heat map and histogram to assist the analysis of the water ecosystems
- Developed with: Java, Javascript, Apache Tomcat, Google Maps API

Greeco (RU Hacks)

HTTP://GREECO.TECH/

- Developed a web application that allows user to rate location and create a visual 'cleanliness' overlay of their local surroundings by using Python, Django, SQLite and Google Maps API
- · Developed with: Python, Django, Javascript, Google Maps API