

OFTWARE ENGINEERING | DEVELOPER

Toronto. Canada

Skills

□ (+1) 289-834-0879 | ■ liuc40@mcmaster.ca | ★ cherayliu.github.io | □ CheRayLiu | □ CheRayLiu

Language Python · Java · SQL · Go · Javascript · HTML/CSS Frameworks Spring Boot · Ruby on Rails · Django · Express.js

Tools and Others Git · GraphQL · Docker · Kubernetes · GCP · Node.js · jquery · PostgreSQL

Experience

Tesla Palo Alto, California

INCOMING SOFTWARE ENGINEER INTERN (BACKEND/DATA SCIENCE ON ENERGY PRODUCTS TEAM)

Sept 2019 - Dec 2019

- · Will develop Python/Scala application for monitoring and diagnosing issues with Supercharger products
- · Will implement new detection methods using pattern recognition of telemetry data from each device
- Will analyze fleet-wide Supercharger telemetry data to understand overall system performance and to look for areas of improvements utilizing various data science techniques

Publicis.Sapient (Publicis Groupe)

Toronto, Canada

SOFTWARE ENGINEER INTERN

June 2019 - Aug 2019

- Designed and led a group of interns to develop a real-time ML anomaly detection microservice for Publicis Sapient NY
 Financial Services to process more than 2 billion transactions per day using Python, Flask, Docker, Kubernetes, and
 GCP
- Designed, implemented and optimized various microservices for KPMG using Java, Spring Boot, and SAP Gigya

Jumpstart San Francisco, California

GROWTH MARKETING INTERN (STUDENT AMBASSADOR)

Mar 2019 - Present

- Selected from a pool of thousands of candidates to work closely with the Jumpstart team to build out an ML recruiting platform
- · Piloted new features, provided student feedback, and acted as a product advisor on campus

TISC Ltd. Tainan, Taiwan

SOFTWARE ENGINEER INTERN

May 2018 - Oct 2018

• Designed and implemented an application for the AERMOD software (By EPA) using **Python** that allows users to simulate dispersion of air pollutant emissions from stationary industrial sources with Google Earth

Projects

HeyTensor

HTTPS://HEYTENSOR.HEROKUAPP.COM

2019

- Developed an ML web application with Node.js, Express.js and socket.io that provides users a chatbot for mimics conversational behaviours
- Trained model based on massive dataset from online forum (Reddit) comments with Python, SQL and Open source machine learning libraries

Say-gRPC

HTTPS://GITHUB.COM/CHERAYLIU/SAY-GRPC

2019

Developed a text to speech server with Go, gRPC, Protocol Buffers and flite (Open source text to speech synthesis engine). Deployed as a Docker application to Google Container Engine with Kubernetes

QuickShop

HTTPS://GITHUB.COM/CHERAYLIU/QUICKSHOP

2019

 Developed a GraphQL API using Ruby on Rails with PostgreSQLthat allows users to access and manipulate product data through queries and mutations to perform actions on product inventory

Greeco (RU Hacks)

HTTPS://GREECO.TECH 2018

 Developed a web application that allows user to rate location and create a visual 'cleanliness' overlay of their local surroundings by using Python, Django, Javascript and SQLite

Education

McMaster University

Hamilton, ON, Canada

Sept 2016 - April 2021

B.ENG IN SOFTWARE ENGINEERING (3RD YEAR)

- GPA: 3.7 | Dean's honour list
- Relevant Courses: Data Structures and Algorithms, Software Design I/II, Databases, Software Architecture