

SHUMING ZHANG

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SKILLS

- **Back-end language:** Python, C++, C, Linux, Assembly, Java, SQL, R
- **Front-end language:** JavaScript, HTML5, CSS, Bootstrap
- **Cloud and Server:** SAP, AWS
- **Environments:** IntelliJ, Git, Docker, npm, valgrind, Bootstrap, Visual Studio, XCode, Android Studio, Eclipse

EDUCATION

Bachelor of Software Engineering (CO-OP)

Expected Graduation April 2021

McMaster University, Hamilton, ON

- Level 3 of Software Engineering a 4-year program
- Awarded McMaster **Honor Awards**
- **Dean's List** 2017-2018
- **Commulative Gpa: 3.7**

WORKING EXPERIENCE

Full stack software developer(intern)

TELUS 5G small cell team/ Jan 6th 2020-Current

- Develop **SQL query, Python, Java, JS** to create **automation** software that could help team automated the process that required long time by manual or analyze data by creating **ML model**
- Support 5G team as a Full stack software with GUI building, Backend software building, API building, database management, problem analysis, Machine learning model building.

Web developer and AWS Cloud developer

China Datacom Corporation Limited/ May 15th -August 15th 2019

- Developed customer **management web system** for China Telecommunications Corporation by using **Spring Boot** and **Java**.
- Developed news releasing part in website for hospital and companies with **SQL**.
- Supported **AWS** cloud service for the companies or customers to manage their human resources.

University Python course review session teacher

Bluekey education company /Sept 1st 2018- Dec 24th 2019

- Helped at least 20 students prepare per time for routine and standardized tests, including 2 midterms and finals.

Collaborated with a team of tutors to develop after-school tutorial program for students in need of extra help

Software Project

Auto Pole selection software – Python, SQL, Json, Restful API, Tkinter GUI Work project(self) in TELUS / July 2020

- A software could run both windows 10 and MacOS that help **5G small cell team in TELUS** to Auto select best suitable poles to deploy 5G devices in the future.
- Use python build an inside free tool that could convert any **huge csv file into db. file** (online tool is expensive)
- The software build by **Python, restful API, SQL** which required Area ID need to select to get all pole selection finished in **30s** per Area with accuracy above **95%**, compare to **15mins** per area and low accuracy by manual. Which improve the accuracy and efficiency of work.
- With **GUI** build by **Tkinter**, enabled user friendly interface to be used.

Design of FoodMatter Web Application – Java, node.js, JS, HTML5, CSS3 Team Project / January 2019

- A website application that allows user to search for more than 100k various food products and also provide relevant products.
- Construct **undirected weighted graph** in order to build the relationship between the relevant products.
- Make HTTP requests and parse **JSON API** responses using the Node standard library, Express, and body-parser.
- Link: <https://damp-garden-51296.herokuapp.com/>

Genetic Algorithm with deep learning – C, C++, python Course Project / January 2019

- The GA project is about the recreation of a given PPM image starting from a randomly generated PPM image.
- Apply linear program and simplex method to approach optimal solution in order to reduce complexity and improve its performance
- **Valgrind** debug memory leak issues etc.
- Link : <https://www.youtube.com/watch?v=ijqb4eleb3I/>