Libang Liang

📞 +1 (437) 972-2165 ✉ l38liang@uwaterloo.ca ⓞ https://github.com/llbllbllbllb 🔗Libang Liang

EDUCATION

University of Waterloo	**MEng in Electrical & Computer Engineering**		Sept 2019 – Present
Imperial College London	**BEng in Electrical & Electronic Engineering**	1st Class Honours	Oct 2016 – June 2019

QUALIFICATION SUMMARY

- Over 4 years experience in **C++** and **Python**, extensive experience with **Java** and **JavaScript** for android and web development
- Expertise in **TensorFlow**, **SKLearn** and have strong knowledge of **machine learning algorithms** such as **decision tree**, **SVM**
- Strong knowledge of database including **SQL** and **NoSQL**, familiar with **Linux/Unix** develop environment and **Git**
- Demonstrated outstanding communication skills and passionate about solving complex problems

WORK EXPERIENCE

IT Product Manager(Internship), Procter & Gamble, China Headquarter   July 2018 – Sept 2018
- **Face Recognition Pilot Study**
- Reviewed research papers on face recognition including concepts such as **PCA**, **LDA**, **LBP** and gave technical advice on vendor selection
- Arranged meetings and closely collaborated with famous face recognition vendors including Sensetime, Face++ and Cloudwalk, closely communicated with technicians on technical prior and user experience and produced detailed and well-structured report and presentation

RELATED PROJECTS

Grocery Delivery Platform (Android App), Waterloo, ON   January 2020 – April 2020
- *Android Studio, Java, XML*
- Built an online grocery order and delivery platform based on client-server architecture
- Designed and implemented **NoSQL** database schema using Google **Firebase Database**
- Designed app flow map and implemented corresponding activities and fragments using Java and Android Studio

Social Network APIs with Yelp Dataset, Waterloo, ON   January 2020 – April 2020
- *Java, MySQL, Spring Boot, JDBC, Python*
- Designed **entity-relationship schema** and implemented by creating **relational database**
- Populated and cleaned Yelp Dataset using Python scripts
- Developed 15 APIs using Java and Spring Boot, which include refresh new post, repost, new post etc.

Traffic Management System, Waterloo, ON   January 2020 – April 2020
- *Python, C++*
- Implemented Python and C++ code to parse users command and effectively store user's data
- Applied **SAT Solver** to solve the Vertex Cover problem and implemented **multi-thread** to run different algorithms for time complexity and accuracy comparison
- Implemented **multi-process** using inter-process communication to connect Python and C++ program

Sign Language Translating Gloves, London, UK   Oct 2017- June 2018
- *C, Arduino, Python, Convolutional Neural Network*
- Collaboratively built mechanism which transform hand gesture input to voice output, which allowed efficient and fast communication between sign language user and individuals who don't understand sign language
- Produced efficient and well-structured **C** and **Python** code, used **TensorFlow** to map gesture to voice