

# Libang Liang

Graduate Student at University of Waterloo

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## EDUCATION

### MEng in Electrical & Computer Engineering University of Waterloo

09/2019 - Present

Current GPA: 91

#### Courses

- Database Systems
- Pattern Recognition
- Algorithm Design and Analysis
- Data and Knowledge Modeling and Analysis

### BEng in Electrical & Electronic Engineering Imperial College London

10/2016 - 06/2019

First Class Honors

#### Courses

- Computer Architecture
- Algorithms and Data Structure
- Machine Learning

## WORK EXPERIENCE

### Full Stack Developer (Internship) Vision Spatial Technologies ✨

05/2020 - Present

Waterloo

#### Tasks

- Configured Email Server using AWS Simple Email Server and Python and created HTML email templates
- Implemented front-end pages using React/JavaScript
- Used Jira to manage tasks and Github for version control

### IT Product Manager (Internship) Procter & Gamble

07/2018 - 09/2018

China Headquarter

#### Achievements

- 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 Senseime, Face++ and Cloudwalk, closely communicated with technicians on technical prior and user experience

## SKILLS

C++ Python Java MATLAB React

Linux/UNIX Git MySQL Android Studio

TensorFlow HTML/CSS/JavaScript Node JS

Express JS NumPy

## PERSONAL PROJECTS

### Book Keeper Web Application (05/2020 - Present) ✨

- Design and built a multi-user responsive web application for keeping records of purchase and reimburse within an organization
- Designed and implemented user interface using React/JavaScript
- Participated in back-end server implementation using Flask and database design using MySQL

### Realtime Chat App (09/2020 - 09/2020) ✨

- Responsive Chat App that allow real-time group communication
- React as front end, and NodeJS and Socket.io on back end

### Leto Cafe Web Interface (06/2020 - 08/2020) ✨

- Responsive Web UI written in JavaScript and React
- Optimized UI to be mobile friendly

### Grocery Delivery Platform Android App (01/2020 - 04/2020) ✨

- 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 (01/2020 - 04/2020)

- 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 (09/2019 - 12/2019)

- 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