Libang Liang
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EDUCATION

MEng in Electrical & Computer Engineering
University of Waterloo

09/2019 – Present   *Current GPA: 91*

Courses
- Database Systems
- Quality Assurance and Maintenance
- Pattern Recognition
- Data and Knowledge Modeling and Analysis

BEng in Electrical & Electronic Engineering
Imperial College London

10/2016 – 06/2019   *First Class Honors*

Courses
- Computer Architecture
- Machine Learning
- Algorithms and Data Structure

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
- 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 Sensetime, 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   jQuery

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

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

Sign Language Translating Gloves (10/2017 – 06/2018)
- 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