

# Jingqian Liu

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## 🎓 Education

**University of British Columbia** 2017.9 – 2021.5  
Bachelor of Applied Science Computer Engineering Vancouver, Canada

- GPA 86.2%
- Relevant courses: Software Engineering, Data Structure and Algorithms, Operating System, Computer Communications, Software Testing and Analysis, Design of Distributed Software Applications, Machine Learning and Deep Learning

## 🔧 Projects

**Distributed Hash Table Based on Consistent Hashing** 2021.1 – 2021.4

- Implemented with Golang and tested on Google Cloud Platform
- Sequential consistent two-way key-value backup

**Mug Managing Application for mugshare** 2020.09 – 2021.04  
<https://youtu.be/A9nonUAC1jQ>

- Front-end application implemented with Flutter
- Back-end server implemented with Node.js and PostgreSQL
- RESTful communication scheme
- Mug recycling bin modelled by SolidWorks

**Automatic Blackjack Dealing Machine** 2020.01 – 2020.03

- Taking pictures of poker cards with Raspberry Pi and pre-process the images with computer vision libraries
- Using the KNN algorithm to classify the cards
- Using FPGA to hardware-accelerate the drawing of the graphical user interface
- Using a custom serial communication protocol to send messages

**Location Based Anonymous Chatting Application** 2019.9 – 2019.12

- Front-end developed with the native Android SDK
- Back-end developed with Node.js and MongoDB
- Using Socket.IO for the communication between the front-end and the back-end

## ⚙️ Skills

- Programming languages: C, Java, JavaScript, Golang, Python, Dart
- Machine learning frameworks: Numpy, Scikit Learn, Tensorflow(Keras)
- FPGA and embedded systems: Verilog, ARM Assembly, Raspberry Pi
- Agile and iterative software development management

## ❤️ Awards

Outstanding International Student Award 2018  
Trek Excellence Scholarship 2019

## 📄 Others

- GitHub: <https://github.com/username>
- Other skills: PowerPoint, Excel, Word, Photoshop