

# Jennifer Liu

[jwt7689@rit.edu](mailto:jwt7689@rit.edu) . 413-559-1042

Online Portfolio: <https://www.jenniferliu.live/>

## Objective

- Looking for a full-time position starting May 2020

## Education

**Expected May 2020** Rochester Institute of Technology, Rochester, NY  
Bachelor of Science: Computer Science  
Immersion: Human Language Technology & Computational Linguistics  
Merit Scholarship Recipient  
GPA: 3.72/4.0

## Relevant Courses

- Language Technology, Language Science, Introduction to Cryptography, Introduction to Natural Language Processing, Introduction to Data Mining, Introduction to Computer Vision

## Skills

### Programming Skills

- Programming Languages: Python, Java, Javascript, C, C++, PHP, SQL, MongoDB, HTML5, CSS3, Shell Script
- Frameworks: AngularJS, VueJS, Flask, Django, JQuery
- Technologies: Git, Perforce, AWS, Arduino, Raspberry Pi, Linux

### Languages

- Fluent in English, Cantonese, Mandarin

## Experience

### **Document and Pattern Recognition Lab at RIT: Research Programmer** Fall 2020, *Rochester, NY*

- Responsible for building the web interface using Vue JS for [MathSeer](#) project, a math-aware search engine, with the ability to recognize math notations. The web application is able to locate text in pictures, and audio-visual search in lecture videos

### **Tencent: Software Engineering** Summer 2019, *Shenzhen, China*

- Contributed to the auto-pay feature on WeChat Pay Hong Kong Mobile Application using C++, Python, and MYSQL
- The auto-pay (named: 代扣 Project) allows users to set up auto-pay with merchants like HK Electric, HKT (Hong Kong's most used ISP service)

### **Octopus Cards Limited: Software Engineer** Summer 2018, *Hong Kong, China*

- Assisted in releasing the 1<sup>st</sup> prototype for enabling Wi-Fi on octopus card reader hardware across all buses in Hong Kong.
- Wrote shell scripts to test Wi-Fi performance when used by many users, and used for a prolonged period
- Added new features on their internal testing tools (A tool that controls bytes allocation on RFID cards) using C
- Made an android app that acts as a controller for the card reader (Demo: <https://vimeo.com/287880129>)

### **RailComm: Embedded Software Engineer** Fall 2017, *Fairport, NY*

- Created a database web application with MSSQL, AngularJS, and Flask to help company improve work efficiency
- Initiated to make a web application using Flask and Python that triggers action on hardware and allow user to view hardware I/O result
- Wrote a C program to enable I2C communicate between Varascite board and STM32

### **Orient Overseas Container Line: Systems Engineer** Summer 2017, *Hong Kong, China*

- Developed a Node.js sample web application demonstrating how developers could benefit from using Object storage over block storage
- Wrote programs for data analytics on log errors using Splunk and ELK

## Selected Projects

### **SMIF – Smart Meals, Intelligent Fridge** 2017

- An IOT device that can intuitively detect items in fridge, notify users when food is ready to expire, and suggest recipes based on items in fridge. Technologies used: PIR Sensor, Raspberry Pi, Amazon Echo, Machine Learning, IOS Application, AWS RDS, PHP

### **NFC Based E-Wallet System for Octopus** 2017

- Prototyped an E-Wallet system using NFC Technology. Technologies used: NFC Shield, Arduino, Android Application, MySQL, Flask, Personal Server for data storage and to deploy Flask API