

Jennifer Liu

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Online Portfolio: <https://jliu1272.github.io/cs-personal/>

Objective

- Looking for a summer internship in 2019 as a software developer

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, Swift, PHP, SQL, MongoDB, HTML, CSS, Bash Script
- Frameworks: AngularJS, Flask, Django, JQuery
- Technologies: Git, Perforce, Cloud Computing, Arduino, Raspberry Pi, Linux

Languages

- Fluent in English, Cantonese, Mandarin

Experience

- Octopus Cards Limited: Embedded Software Engineer** Summer 2018 Hong Kong
- Assisted in releasing the 1st 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
- Researched on how object storage is more effective than block storage
 - Developed a Node.js sample web application demonstrating how developers could benefit from the transition
 - Wrote programs for data analytics on log errors using Splunk and ELK
- Student Lab Instructor for Computer Science for AP** Fall 2016 Rochester, NY
- Helped students better understand algorithm based problem solving, and graded students work
- Pan United Corporation** Summer 2014 Singapore
- Co-developed a software that sends weekly notifications about company's weekly expenditure, inventories, and revenue information using MySQL and Javascript
- ## 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
- LIUEC Management Tool V1** 2017
- A management tool application for making/editing appointments, viewing patient's appointments to help reduce error, and improve efficiency for my father's clinic
 - Technologies used: MongoDB, AWS S3 and Elastic Beanstalk, Flask, AngularJS