

Jennifer Liu

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

Education

Expected Rochester Institute of Technology, Rochester, NY

May 2020 Bachelor of Science: Computer Science

Merit Scholarship Recipient

GPA: 3.7/4.0

Relevant Courses

- Concepts of Computer Systems, Analysis of Algorithms, Linear Algebra, Language Technology, Probability & Statistics I, Mechanics of Programming, Intro to Software Engineering, Principles of Data Management, Discrete Math, Computer Science I & II, Introduction to CS Theory, Introduction to Cryptography, Project Base Calculus I & II

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

Software

- Pycharm, Visual Studio, IntelliJ, Sublime, Data Grip, Vim

Languages

- Fluent in English, Cantonese, Mandarin

Experience

RailComm: Embedded Software Engineer August – Dec 2017

Fairport, NY

- Developed a database web application with MSSQL, AngularJS, and Flask to help company improve work efficiency
- Developed 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
- Future features will include data analytics, and messaging among users
- Technologies used: MongoDB, AWS, Flask, AngularJS

TEDxRIT Website 2016

- A website to promote the event TEDxRIT
- Hosted website using personal Linux Server

Laser Puzzle 2016

- Uses backtracking algorithm to solve an interactive puzzle