Jennifer Liu

jwt7689@rit.edu . 413-559-1042
Online Portfolio: https://jenniferliu1272.github.io/cs-personal/

Education

Expected May 2020	Rochester Institute of Technology, Rochester, NY
Bachelor of Science: Computer Science
Merit Scholarship Recipient
GPA: 3.69/4.0

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 us 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
- Allow consumers to use Octopus on phone for payment transaction, view transaction, top-up transaction using NFC
- 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

Activities/Competitions

- BigRed//Cornell, BrickHack Hackathon, ImagineRIT, Microsoft Puzzle Challenge
- TEDxRIT
- No Voice Zone (RIT club for interacting with hard of hearing, deaf, and speaking individuals using ASL)