Yuqi Yang

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🔗 https://yuqiyang4089.github.io

EDUCATION

UNIVERSITY OF CALIFORNIA. DAVIS

DAVIS, CA

Master of Engineering,
Computer Engineering
Expected graduation Mar 2021

UNIVERSITY OF CALIFORNIA. DAVIS

DAVIS, CA

Exchange Program,
Computer Science
Sep 2018 - Jun 2019

WUHAN UNIVERSITY OF TECHNOLOGY GPA:3.81/4.0

WUHAN,HUBEI

Bachelor of Engineering,
Electronic and Information
Sep 2015 - Jun 2018

Coursework: Computer Architecture, Software Engineering, Algorithm, Data Structures, Programming Language, Distributed Database, Artificial Intelligence, Data Visualization, Computer Animation, Computer Network, Object-Oriented Programming

SKILLS

PROGRAMMING LANGUAGE

C/C++, SwiftUI/iOS, Java, Python, HTML/CSS, JavaScript, R, MATLAB, VUE.js, C#, RESTful API, MySQL

SOFTWARE TECHNOLOGIES

D3, ELM, Flask, Falcon, Graph - tool, Spring, SpringBoot, Blender, Unity, Latex, Git

EXPERIENCE

Teaching Assistant for ECS152 computer network(2020 Winter quarter)

LINK

Github: github.com/yuqiyang4089
LinkedIn:
https://www.linkedin.com/in/yuqi-yang-51b34a177/

EXPERIENCE

SOFTWARE ENGINEER INTERN

Danaher - Cepheid | Sunnyvale, CA | Jun 2020 - Sep 2020

Project description: Re-engineering the omni software product by developing a standalone socket server(internal tool) to emulate functions of omni Instrument, which supports next generation instruments and Xpert® tests.
- Developed a socket server handling with network communication by **TCP** connection using **Java,** worked on **RESTful API endpoint,** privided functions of site status request, assay running test request, etc.
- Maintained software applications of current omniJava software(**JettyServer, JerseyServlet**) and **Android development** including designing, coding, documentation, and analyze defects and bug fixes using **Postman** etc. with full-time team

SOFTWARE ENGINEER INTERN

VIDI LAB| DAVIS, CA | Jun 2019 - Sep 2019

Project description: created a visual analysis tool for studying social network data, including data processing, front end design and implementation, and data analytics back end development. (Demo: https://yuqiyang4089.github.io/single.html)
- Designed and implemented web-based functions including statistics analysis, easy ways to select a subgroup to visualize ,layout change, etc. by **JavaScript**, **Elm**, and **HTML/CSS**
- Set up the back end for data processing and algorithm design by **Python Flask**
- Improved runtime efficiency by 15% and reduced space complexity by 20%
- Benefited the lab get funding from National Science Foundation

PROJECTS

SpotIn iOS Development Project. In Progress |Aug,2020
- Work with friends out of interest to build up an iOS app with the idea of connecting users to people who care as emergency contacts
- Design the UI workflow using **Adobe XD**, develop app by **SwiftUI** and use **Firebase** for database

Security Login System Development |Apr,2020
- Implemented an entire login system from the ground up with multiple security features including Google reCAPTCHA, database encryption, multi location login restriction, verification code, etc.
- Utlized **SpringBoot** for backend server, and **Thymeleaf** as template engine, **MySQL** for database

Face Detection and Tracking Software |Jan,2020
- Built an application to recognize and identify a user's head movements and present a freely perspective of the 3D scene based on head movement by **3D Unity**
- Took advantage of the built-in camera of laptops to capture a user's face and smoothly map the motion of the head to the 3D scene
- Set up face tracking module by **OpenCV,** and rendering the scene by **OpenGL**
- Handled data transmission and processing using **Python**

Customer Relationship Management(CRM) Application |Jan,2019
- Developed a software application for managing users' data
- Designed UI by JavaScript to test the efficiency of functions, and used mySQL for database support