Xiangyu (Johnny) Wan

330 De Neve Dr, SLC-L863, Los Angeles, CA 310-562-7858 | johnnywon@g.ucla.edu

EDUCATION

University of California, Los Angeles BS, Computer Science Major

Jun. 2022

- GPA: 3.99/4.0
- Relevant Coursework: Intro to Computer Organization, Software Construction Lab, Physics for Scientists and Engineers, Operating System Principles, Logic Design of Digital System, Introduction to Algorithms and Complexity, Introduction to Probability and Statistics 1: Probability, Programming Languages, Introductory Digital Design Laboratory

EXPERIENCE

BSH Home Appliances, Nanjing, People's Republic of China Software Development Intern

Jul. 2019 - Sep. 2019

- Developed data transmission and abstraction and experiment interface for a new multi-purpose kitchen sensor matrix and deployed the software on an embedded system. Implemented immediate display and logging of sensor data, real-time data analyzation, and test simulation. Further development is enabled by high level of modularization. The sensor matrix, deployed in kitchen, enables alarm against burnt food, hence ensures safety and taste of cooking.
- Designed and performed experiments on anti-burnt feature of kitchen sensor matrix. These
 experiments allowed our team to generate a prototype machine-learning model.
- Developed test report integration tool used with reports generated by automatic test tools and set up automatic database updating and display on internal web server. This shared tool enhances software development teams' ability to follow up with project progress, through integrating multiple sources of reports, and enabled quick reaction to emergency situations.

SKILLS

- Technical skills: proficient in C/C++ and Python; proficient in cross-platform development with Linux and Windows using Git, GitHub, Gnu make and VS code; proficient in automated SQL operation design with Python; experienced in full-stack design with Node.js, react and express; experienced in data structure/algorithm design and analyzation; experienced in working with embedded systems including Raspberry, Beaglebone, and Arduino.
- Teamwork: effective in understanding and breaking down task requirements with team members, communication with team in solution seeking, and keeping progress updated through regular reports; effective in planning and dividing software API with team members.
- Language: fluent speaking of Mandarin and English, elementary German.

PROJECTS

SmallMart, UCLA Spring 2019

- https://github.com/JohnnyXiangyu/CS 32/tree/master/Project%204
- Final project of Intro to Computer Science, a character-wise diff file generator implemented with C++
- Implemented a fixed size hash table.
- Implemented reverse function, which takes a diff file and first file to re-create the second file.

Bookkeeper 2020 - Today

- https://github.com/JohnnyXiangyu/BookKeeper/tree/localhost_gui
- A simple web app built with react, react and MongoDB. It's designed to let users, with identity identified by their accounts, update and review their financial records.
- The whole app is designed as a finite state machine of a single webpage, with state and related metadata stored inside one mother component. Different "pages" are hosted by different child components, mounted and unmounted by the mother component.

• A server side program will regularly fetch and pull from git repository, and both frontend and API node programs are setup to automatically restart on update.

DataAnalysis_GP 2019 - Today

- https://github.com/JohnnyXiangyu/DataAnalysis_GP
- A Python/C hybrid module that provides serial communication, keyboard real-time control, and automatic logging; all components can be customized through user-defined derived classes of original implementation.
- Used to construct lab system for my last summer internship and a Physics lab course I took this year.
- In progress: build a web app that allow user to manipulate devices and conduct experiments, using tools provided by this library, from localhost webpage and/or remote device.

HONORS & AWARDS

• Dean's Honors List Dec. 2018 - Today