Xiangyu (Johnny) Wan

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EDUCATION

University of California, Los Angeles
BS, Math of Computation Major — Jun. 2022

- GPA: 4.0/4.0
- Relevant Coursework: Intro to Computer Science, Intro to Computer Organization, Software Construction Lab, Physics for Scientists and Engineers series

Jinling High School — Jul. 2018

SKILLS

- Technical skills: experienced in C++ and Python development using Visual Studio 2017/Visual Studio Code and GitHub; experienced in database design and development with MySQL and Python; experienced in using Linux; experienced in embedded system development; familiar with HTML and JavaScript; experienced in Microsoft Office
- Language: fluent speaking of Mandarin
- 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.

PROJECTS

Text Diff, UCLA — Spring 2019

- 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

Raspkart, UCLA — 2018 - Today

- An interest-driven project of remote-controllable electronic drone constructed with Raspberry
- Implemented motor control through GPIO and user interface with Python
- (In progress) Design and make mechanical structures with Fusion 360 and 3D printer

EXPERIENCE

BSH Home Appliances, Nanjing, People's Republic of China — Jul. 2019 - Sep. 2019
Software Development Intern

- Developed data transmission and abstraction and experiment interface for a new multi-purpose kitchen sensor matrix and deployed the software on an embedded system. Achieved 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.

HONORS & AWARDS

- Dean's Honors List — Dec. 2018 - Today