Yicheng Qin

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EDUCATION

University of California Santa Barbara-Santa Barbara, CA
Expected Graduation: 2025

- BS/MS in Computer Engineering | GPA: 3.64
- Organizations: Theta Tau

EXPERIENCE

Engineer Intern-Peraton, Monrovia,CA
June 2019 - July 2019

- Learned a new industry specific language called ladder logic during the internship in order to program a PLC
- Coded in ladder logic for PLC and wired control panels used in automated cooling systems for NASA's deep space network
- Adapted temperature and voltage sensors into ladder logic code and made sure the values were scaling correctly
- Succeeded in redesigning a system that used the BACnet communications protocol instead of the Modbus protocol

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PROJECTS

GauchoRide
May 2023 - June 2023

- Worked with React to start creating an application with a group that managed customer rides
- Established connection with app and Google Oauth for user backend and deployed app on Dokku
- Implemented toggle role for admin that linked backend table in SQL to frontend and for user roles Driver and Rider that is a solid foundation for later development of the application

Blockchain
April 2023 - June 2023

- Created a server and client system that stores transactions made by the client
- Implemented Lamport's Clock in order to deal with mutual exclusion and used thread-locking to preserve the integrity
- Initialized a queue that stored client requests in order to handle simultaneous requests
- Learned how to mine a valid hash to associate with a block in the blockchain
- Implemented multi-paxos to handle a non-central distributed system and for failure tolerance

Poke-Walker
March 2023 - March 2023

- Created a pedometer that would display a different pokemon evolution when a certain step count is met
- Implemented LCD display using the SPI protocol and register level C programming
- Figured out how to convert images to png to bitmap and send the data to the LCD to display the image
- Utilized I2C protocol to communicate with the accelerometer in order to track and count step

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SKILLS

Proficient: Python | Comfortable: C++, C, Java | Learning: Javascript, Elixir

INTERESTS

Software Development | Deep Learning | Embedded Systems | Computer Vision | Networking