

# Yicheng Qin

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## EDUCATION

**University of California Santa Barbara**-Santa Barbara, CA

Expected Graduation: 2025

- MS in Computer Engineering | GPA: 3.85
  - Organizations: Theta Tau
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## 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

**MyMelody**

November 2023 - December 2023

- Utilized Android Studio to create an app to allow users to check their top Spotify artists, genres, and tracks over different periods of time and rate them
- Built the app by making calls to the Spotify web API, handled persisting data using google firebase API, and implemented a way to visualize musical genres using google charts API
- Created a clean user interface that is intuitive and allows users to interact with their Spotify data

**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