Tianzhe Hu

github.com/Tyson-Hu

tysonhu.dev@gmail.com

+1 (347) 861-3715

🎓 B.S., Computer Engineering, University at Buffalo 2019 - 2023

RELEVANT SKILLS

- Web Development | HTML/CSS/JavaScript
- Blockchain | Solidity
- Embedded System & Software Development | C/C++/Java/Scala/Python/Go
- Circuit Design & Analysis & Build up | . .

PROJECTS

Jumper Game Sept 2019

Scala

- Designed and built a game that player can jump up from tile that randomly generates at the game map
- A physic engine that has gravity, acceleration, and collision volume detect

Anti-theft alarm System Nov 2021

C/Circuit Schematic

- Construct an Anti-theft alarm System that uses password to lock an item, and plays sound if theft is detected by a sensor
- Built on a breadboard with an LCD screen, LEDs, IR sensor, and Buzzer

Experiment for Circuit Step 2021 - Nov 2021

- Experiment on circuit analysis using an oscilloscope, function generator, and several ICs. | Example Report

Game "2048" April 2022

Assembly

- Implement the game "2048" with a timer, switch handler, and LED illuminator.

Text Chat Application Nov 2022

C

- Develop the client and server components of a text chat application, consisting of one chat server and multiple chat clients over TCP connections.
- IP checker with UDP connections.
- Unix Network Concepts

Brain-Computer Interface (BCI) Signal Processing Board Step 2022 - April 2023

C

- An PCB board that handles EEG & EOG signals and transfers to PC with USB & Bluetooth | Document

SIDE PROJECTS AND HOBBIES

 Hackintosh Development - Give support for running macOS on Non-Apple Products

 QQ Beautify - Design the UI of QQ (Design idea from *dribble*)

 Blog - Self blog build with Hexo

 Sneaker Scraper - Scrape data from serval sneaker reselling platform