

Joe Zhang

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OBJECTIVE

An internship/job for software or hardware design, debug, and maintenance.

PERSONALITY

Works efficiently and demonstrates a willingness to learn, maintaining a positive attitude and effective communication skills.

SKILLS

Technical C, C++, Java, Python, HTML/CSS, JavaScript, React, Git, Linux, Verilog, Modelsim, MS Office

Languages English (Native), Mandarin (Native)

ACCOMPLISHMENTS

- Represented the USA twice as a team for the World Wushu Championship for Tai Chi/Kungfu
- Certified Judge of the National Wushu/Kungfu competition

TECHNICAL PROJECTS

Auto Grader (*Leader for a project sponsored by Forta Network Inc.*) 2024

- Collaborated in GitHub, coded the backend of the software in Python to differentiate between legitimate and false blockchain scam alerts.
- Integrated the security feature by using ChatGPT API, Etherscans API, and Python for data processing and blockchain transactions analyzation.

Garage Door 2023

- Developed and coded the algorithm in C language to automate a garage door that can automatically close once opening to certain angle by using an ADXL345 Accelerometer.
- Coded the software to communicate the garage door through a HC-05 Bluetooth Module.
- Integrated features that include enabling the garage door to automatically open and close based on the temperate reading from the TC-74 Temperature Sensor.
- Integrated other technologies, such as STM32L4 Nucleo Board, and 28BYJ-48 5v stepper motor + ULN2003 driver board.

Sound Detection & Measuring Device 2023

- Coded a sound detection and measurement device using C++ by adapting the input signal strength to achieve more stable input and reduce external noise interference.
- Designed, drew, built, verified the circuit schematics by integrating transistors arrays, DC to DC Buck Converters, DC to DC Step up Converters, MAX4466 Microphone, and Atemega328.

Happy Cow 2023

- Contributed an open source and collaborated cow farm simulation game.
- Acquired practical knowledge in advance application development using Java, JavaScript, and React.
- Applied professional-level teamwork practices and tools like Git, kanban Board, and retro.

About Me Website

2020

- Created my own website (<https://joeczhang.com>) with a looped video background and slideshow using HTML/CSS and Javascript.

MANGEMENT EXPERIENCE

Barista & Cashier (Supervisor at TpTea Inc.)

June 2021 – December 2022

- Worked at a fast paced and demanding café while managing and teaching new workers, maintaining a coordinated workplace, and resolving customer issues.

EDUCATION

University of California - Santa Barbara, Major GPA 3.6/4.00

Bachelor of Science (BS) in Computer Engineering Departments: Electrical & Computer Engineering and Computer Science (offered jointly by the two departments)

Related Courses Taken

- VLSI Architecture and Design
- Digital Design Principles
- Data Structure ALG I/II
- Operating Systems
- Computer Security
- Artificial Intelligence
- Machine Learning
- Introduction to Computer Communication Networks
- Advanced Applications Programming
- Sensor and Peripheral Interface Design
- Introduction to Computer Architecture