Zifan **Zhang**

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Summary

Second-year undergraduate student at UC San Diego majoring in Computer Science looking for an internship in software development or related fields

Education

University of California, San Diego *La Jolla, CA*

B.S. in Computer Science *Aug. 2019 - Jun. 2023*

- GPA: 3.89
- Provost's Honors: awarded to undergraduate students based on academic excellence in previous quarters
- Coursework:
  - Discrete Math, Algorithm, Data Structure, Object Oriented Design
  - Computer Organization, Digital System, Computer Architecture
  - Theory of Computation, Software Engineering, AI: Search and Reasoning

Skills

Programming Language

- Intermediate: Java, C, C++, Python, HTML+CSS
- Beginner: Bash, Git, JavaScript, MIPS, Verilog

Tools

- Makefile, CMake, VS Code, GDB, Valgrind, Azure

Experience

Grid World

School Project *2020 Fall*

- Using Python implemented DFS BFS UCS and A* algorithms to find a path from a point in the grid world to another point.

Profile Website

Personal Project *2020 Summer*

- A static web app hosted on Azure to show viewers the latest information about myself and my resume and with links to my projects.
- Used simple html and css to format the web page.

Simple CPU

School Project *2020 Summer*

- A simple 5-stage pipeline processor created using verilog that supports MIPS instructions.
- Stalls whenever encounters pipeline hazards.

Huffman Encoding Compressor

School Project *2020 Summer*

- A huffman encoding compress written in c++ that can compress files using huffman encoding and decompress the compressed files.
- Can significantly decrease the size of texts, but not as effective when compressing other types of files.

Actor Graph

School Project *2020 Summer*

- Given a graph of relationships of actors in Hollywood, the program can find the shortest path to connect from an actor to another actor.
- Written in c++ and using BFS algorithm.