Zifan **Zhang**

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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

2048 AI

School Project *2020 Fall*

- Using Python implement a depth-3 game tree and the expectimax algorithm to compute decisions for the AI player.

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*

- Using basic HTML and CSS hosted on Azure created a static web app to show viewers the latest information about myself and my resume and with links to my projects.

Simple CPU

School Project *2020 Summer*

- Using verilog designed a simple 5-stage pipeline processor that supports MIPS ISA.
- Stalls whenever encounters pipeline hazards.

Huffman Encoding Compressor

School Project *2020 Summer*

- Using c++ implemented a huffman encoding compressor 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*

- Using c++ implemented a program that can find the shortest path to connect from an actor to another actor given a graph of relationships of actors in Hollywood.
- Graph search using BFS algorithm.