

# Jianwei Zhu

Phone: (510)-378-4542 | Email: [jwezhu@ucdavis.edu](mailto:jwezhu@ucdavis.edu) | San Jose, CA 95133

Website: <https://jianweizhu1.github.io/mysite/>

## Education

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University of California, Davis

Computer Science B.S

Sep 2018-June 2021

**Relevant coursework:** Algorithm Design & Analysis, Data Structures, Operating Systems, Programming Languages, Computer Architecture, Web Programming, Artificial Intelligence

## Project

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- **Shell Script( C )**
  - This shell design to execute user-supplied commands and typical built-in commands.
  - It can handle file redirection of the standard output of commands to files and also process lines of commands via piping.
  - The core data structure implemented is linkedlist which helps decrease runtimes when piping commands.
  - Using OS syscalls for creating forks and processing pipes.
- **Sudoku Solver(Python)**
  - This project uses pygame to create a GUI interface for users to select their input.
  - Using backtracking and recursion to find the solution.
  - Ability to select number with the mouse click and display the number.
- **User-level thread library(C)**
  - Partner project building a user-level thread called libuthread which allows applications to run multiple threads concurrently.
  - Support synchronization mechanism for threads to join other threads.
  - The library uses round-robin strategy to perform thread scheduling

## Skills

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**Technical skills:** Python, C++, C, Java, Javascript, Mysql, Html, Go, Data structures, Algorithm design, Complexity analysis, Object-oriented programming, Debugging, Automation testing

**Individual qualities:** Self-motivated, Goal-oriented, Desire to upskill, Good communication skills, Problem-solving, Leadership.