



CINDY X. ZHANG

COMPUTER SCIENCE, B.A.

EDUCATION

University of California, Berkeley
2018-2022 | GPA: 4.0

Technical Courses:

- CS61A: The Structure and Interpretation of Computer Programs
- CS61B: Data Structures
- CS61C: Machine Structures
- CS70: Discrete Math and Probability
- Math 54: Linear Algebra and Differential Equations

In progress: Artificial Intelligence (CS188), Efficient Algorithms and Intractable Programs (CS170), Designing Information Devices and Systems II (EE16B)

SKILLS

Advanced:

- Python
- Java
- React
- HTML, CSS, JavaScript

Proficient:

- C
- RISC-V

Developing:

- MERN Stack:
 - MongoDB, Express, React, Node.js

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EXPERIENCE

Triton | November 2019 - Present

Front End Intern

- Redesigned and revamped Triton's website using React and Redux
- Created the front end interface for customers to sign up or to request a demo. This automatically sends a slackbot notification to Triton
- Improved the UI of the data dashboard to be more user friendly, intuitive, and visually aesthetic

Dolby Laboratories | May - August 2019

Platform QA Intern

- Scripted in Python to generate output from research binaries and configuration files to verify video compression algorithm
- Integrated pytest in testing scripts to automate process
- Refactor and adapt scripts to be more user-friendly, versatile, and efficient

Berkeley CS61B Tutor | August 2019 - Present

Course Staff

- Taught a group of CS61B students 2x/week and run office hours 1x/week
- Developed worksheets to teach in sections
- Assisted students with projects and labs
- Graded and proctor exams

Computer Science Mentors | Spring 2019

CS61A Mentor

- Taught a group of CS61a students once a week
- Generated course material for weekly learning and exam reviews

PROJECTS

Musique

- MERN: MongoDB, Express, React, Node.js
- Web application that allows individuals to add songs to a shared queue
- Integrated the Spotify Web API to retrieve user information and allow easy access to saved songs in their account

Expense

- React: HTML, CSS, Javascript
- Budgeting web application where users can manage their finances with features like logging transactions, setting spending limits/goals, and visualizing expense trends

2D Maze Game

- Java
- Used Weighted Quick Union data structure and Prim's Algorithm to create a 2D world with connected rooms and hallways
- Includes a torch feature, displaying a small radius of the world around the player with the rest of the world hidden

Blackjack Bot

- Python, React
- Built bots that hit/stayed according to a basic blackjack strategy or hit if the probability of losing is below a defined threshold
- Generated data from simulated games to test correct implementation of bots and visualize win rates dependent on strategy and starting cards
- Developed website as an interface to easily run simulations and view results

Virtual Reality Research

- Unity3D, C#
- Created a virtual environment using Unity 3D to host different virtual humans to test which traits are more responsible for their human resemblance
- Conducted study with over 100 participants

AWARDS

- UC Berkeley Kraft Award (2019)
- Cal Leadership Award (2018)
- National Merit Scholar (2018)