JESSIE TSAI

EDUCATION

University of Southern California — *Los Angeles, CA*
B.S. Computer Science — *Expected: May 2023*
Minor: Computational Mathematics
GPA: 3.7

EXPERIENCES

Hackathon: AthenaHacks / Los Angeles, CA — *Spring 2020*
- Developed a project in collaboration with a team of first-time hackers.
- Built a facial recognition web page that provides food recommendations based on the user's current mood
- Contributed in coding algorithms, research, and video editing

Private Math Tutor / San Diego, CA — *Fall 2019*
- Improved students' performances by a letter grade
- Developed different teaching methods suitable for each student
- Designed practice schedules to help alleviate stress for students

PROJECTS

Scrabble Game — https://github.com/jessiets/ScrabbleGame
- A game for 1-8 players and computer players, in which each player takes turns placing tiles on a board, forming correct words, and gaining points for their words.
- Applications: object orientated design, STL classes, graph(tries), backtracking search, exception error

Food4Mood — https://github.com/jessiets/Food4Mood
- An emotion recognition web page that captures and analyzes facial expressions. Based on the result, the program recommends various food options to boost the user's mood.
- Applications: Flask, HTML, Python, and Microsoft Azure's Face API

Black Jack — https://github.com/jessiets/Black-Jack
- A stimulation of the Black Jack game that allows a player to play the game with a virtual dealer.
- Applications: C++, array search, conditional statements, loops

CONTACT

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COURSEWORK

- Data Structures and Object Oriented Design
- Discrete Methods in Computer Science
- Probability Theory
- Web Development (Shaw Academy)
- Python for Everybody (Coursera)

SKILLS

Programming Languages:

C, C++, Python

Basic HTML, CSS, Javascript

Frameworks/Technologies:

Docker, Git, PythonGUI, Bootstrap

Languages:

English (fluent)

Mandarin (native)

Spanish (elementary)

Collaboration

Adaptability