

JESSIE TSAI

Engineering Student

jessiets@usc.edu

858-335-4300

San Diego, CA 92129

SUMMARY OF QUALIFICATIONS

Second-year student pursuing a Bachelor degree in Computer Science looking to use problem solving skills in a Software Engineer Internship. A true team player and a fast learner. Adaptable and driven with strong work ethic and ability to thrive in team-based or individually motivated settings. Expertise in C++.

EDUCATION

University of Southern California - Los Angeles, CA

Bachelor of Science

Computer Science, **Expected in May 2023**

- 3.7 GPA
- Viterbi School of Engineering
- Minor in Applied Mathematics/Computational Mathematics

SKILLS

- C, C++, Python, Java
- HTML, CSS, Javascript
- Spring Boot, Thymeleaf, Bootstrap
- Docker, Git
- English, Mandarin (native), Spanish
- Object Oriented Design
- Great active listener
- Advanced mathematical abilities
- Complex problem-solving abilities
- Drafting assignments

PROJECTS

Tucklets.org *In progress, <https://tucklets.net/>*

- An interactive website for Tucklets, a non-profit organization that sponsors Education, Health and Nutrition programs for children in Kenya.
- In charge of publishing the administration dashboard and managing data in relational database
- Applications: Spring Boot, Thymeleaf, Java, Postgres Relational Database

Scrabble Game <https://github.com/jessiets/ScrabbleGame>

- A game for 1-8 players and computer players. Each player takes turns placing tiles on a board, forming correct words, and gaining points.
- 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 results, program recommends various food options to boost user's mood.
- Applications: Flask, HTML, Python, and Microsoft Azure's Face API

EXPERIENCE

ATTENDER

| March 2020

AthenaHacks - Los Angeles, CA

- Developed a project in collaboration with a team of first-time hackers.
- Built a facial recognition web page that provides food recommendations based on user's current mood
- Collaborated in coding algorithms, research, and video editing.

MATH TUTOR

| May 2019 - December 2019

Private - San Diego, CA

- Improved students' performances by a letter grade.
- Directed students by identifying and addressing specific concerns.
- Tutored students in such areas as Algebra and Calculus, delivering individualized lesson plans and study guides on subject matter.

WEBSITES, PORTFOLIOS, PROFILES

- <https://jessietsai.io/>
- <https://github.com/jessiets>
- <https://www.linkedin.com/in/jessie-ts/>

RELEVANT COURSEWORK

- Data Structures and Object Oriented Design
- Discrete Methods in Computer Science
- Probability Theory

CERTIFICATIONS

- Programming for Everybody (Python), Coursera - 2020
- Web Development, Shaw Academy - 2020