MATTHEW TSAI

WEBSITE RESUME — mtsai1@berkeley.edu — linkedin.com/in/m-tsai/

EDUCATION

UC Berkeley *August 2019 - Present*
- Bachelors in Computer Science and Statistics, Academic GPA: WEBSITE RESUME

SKILLS

Languages	Python Java Swift	C Javascript HTML5	SQL Assembly CSS	**Frameworks/Tools**	React.js Agile/Scrum	Git Adaptive Pedagogy

PROJECTS

Conway's Game of Life *September 2020 - October 2020*
- Implemented a program in **C** that processes a PPM3 file and generates frames representing the life cycle of each RGB cell. The frames are then compiled into a gif animating the life based on a given rule set.

Notify *July 2020 - September 2020*
- Developed an application in **Swift** that is able to log tasks and send notifications. This project was inspired by Cortana always trying to help me.
- Incorporated a simple virtual assistant using Google's speech recognition library paired with custom made responses that was written in **Python**.
- I plan to continue to include an alarm using Spotify API as the one that exists does not fit my needs.

Gitlet *April 2020 - May 2020*
- Wrote a version control system in **Java** completely from scratch that mimics the core functionalities of Git: branch, merge, commit, checkout etc.

WORK EXPERIENCE

Start-Up: Brew2You *February 2020 - July 2020*
SDE Intern and Design Lead
- Designed a MVP for a Berkeley STEP VC Conference with **Adobe XD** demonstrating interactions with partners/clients and created a sample front-end using **HTML, CSS, and Javascript**.

TEACHING EXPERIENCE

Math and CS Tutor *September 2020 - Present*
Volunteer
- Teaching in my local community and volunteering remotely to introduce computer science to those who might be underrepresented or facing educational difficulties during COVID.

UC Berkeley EECS Dept. *January 2020 - May 2020*
Teaching Assistant
- Taught in weekly labs for CS 61A, an introductory course on Python Scheme, and SQL.
- Worked to best assist over 2,000 students by explaining concepts during office hours and lab sections.

Cal Archery Team *August 2019 - May 2020*
Operations Coordinator ,Course Instructor
- Taught instructional courses and orchestrated the operations for archery competitions.
- Competed in 2020 Fivics NorCal Indoor Archery Collegiate Championship.

RELEVANT COURSE WORK

Data Structures and Algorithms	Discrete Mathematics and Probability Theory
Machine Structures	Introduction to Artificial Intelligence