KYLE TSE

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EDUCATION

University of California, Berkeley

B.A. Computer Science

Expected Spring 2020

GPA: 3.70

EXPERIENCE

University of California, Berkeley

Berkeley, CA

Undergraduate Student Instructor

June - August 2018

 \cdot Led weekly discussions and office hours to solidify understanding for CS70 (Discrete Math and Probability Theory)

Tutor September 2017 - Present

· Led weekly discussions to review material for CS61A (Introduction to CS)

Berkeley RISE LAB

Berkeley, CA

Undergraduate Researcher

September 2017 - June 2018

- · Reviewed and brainstormed behavioral interventions to reduce carbon footprint
- · Redesigned mobile application UI using Ionic framework
- · Analyzed and performed permutation tests on carbon footprint and app usage

PROJECTS

Catan Python

Strategy that aims to win Catan in the fewest moves possible

- · Optimized strategy based on expectation, entropy, and Markov chains
- · Top 3 strategy in class

NBA Streams JavaScript

Google Chrome Extension that finds streams to live basketball games

- · Scraped data from Reddit and NBA APIs for links of all ongoing games
- · Used cookies to save game information and user preferences

Halcyon Stats Ruby on Rails, JavaScript

Website that tracks a player's statistics for Vainglory

- · Utilized ActiveRecord database to store and analyze information about matches and players
- · Parsed JSON from Vainglory API and generated infographics for data visualization

School RPG JavaScript

Web game based on Pokmon mechanics and gameplay

- · Designed characters, maps, and other displays with JavaScript
- · Integrated heavy use of object-oriented programming to generate characters and in-game objects
- · Implemented a save-state feature by creating and updating HTTP cookies

SKILLS