

Kyle Tse

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

B.A. Computer Science, B.A. Cognitive Science

GPA: 3.77

Expected May 2020

EXPERIENCE

BERKELEY RISELAB

September 2017 to Present

Undergraduate Research Assistant | Berkeley, CA

- Reviewing and designing behavior interventions to reduce an individual's carbon footprint
- Implementing features into mobile application and evaluating efficacy of said interventions

COMPUTER SCIENCE MENTORS

August 2017 to Present

Junior Mentor | Berkeley, CA

- Teach and review material to a group of students for CS61A, the introductory computer science course

ALPHA PHI OMEGA

August 2017 to Present

Webmaster | Berkeley, CA

- Update biweekly announcements onto main page of member website
- Maintain database to keep track of pledges' and actives' membership
- Implementing two pairing systems on website to incentivize actives to be involved in service

PROJECTS

HALCYON STATS Ruby, JavaScript, HTML, CSS

Website that tracks a player's statistics for Vainglory

- Developed REST-compliant web application with Ruby on Rails
- 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, HTML, CSS

Web game based on Pokémon 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

DATABASE Java

Small query database similar to SQL

- Designed a small relational database management system (DBMS) and a domain specific language
- Implemented table creation/storage, 'select' operations, row parsing, and error handling
- Collaborated with partner using Git and JUnit testing

SKILLS

LANGUAGES Java • Python • C • Ruby • JavaScript • HTML/CSS

FRAMEWORKS Rails • jQuery • Bootstrap

OTHER JSON • Git • REST