

Kyle Tse

✉ tse.kylekobie@berkeley.edu
🐙 github.com/tsekylekobie
in linkedin.com/in/kyle-tse/
🌐 tsekylekobie.github.io

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.A. Computer Science, B.A. Cognitive Science
GPA: 3.78

Expected May 2019

EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT

September 2017 to Present

Berkeley RISELab

- Reviewing and brainstorming behavioral interventions to reduce people's carbon footprint
- Implementing tier system to calculate and rank users by carbon emissions
- Currently redesigning UI of mobile application using Ionic framework

TUTOR

August 2017 to Present

Computer Science Mentors

- Lead weekly discussions to solidify understanding for CS61A, the introductory computer science course
- Topics include object-oriented programming, recursion, asymptotic analysis

WEBMASTER

August 2017 to Present

Alpha Phi Omega

- Update biweekly announcements onto main page of member website
- Maintain database to keep track of pledges' and actives' membership

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

SKILLS

LANGUAGES Python • Java • JavaScript • HTML/CSS

FRAMEWORKS Ruby on Rails • jQuery • Bootstrap