

# Kyle Tse

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

## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

Expected May 2020

B.A. Computer Science and Cognitive Science | GPA: 3.78

Relevant Coursework: Data Structures, Algorithms, Linear Algebra & Differential Eq.,  
Probability and Random Processes

## EXPERIENCE

### BERKELEY RISE LAB

September 2017 to Present

#### Undergraduate Researcher

- Reviewing and brainstorming behavioral interventions to reduce carbon footprint
- Implementing tier system based on carbon emissions
- Redesigning mobile application UI using Ionic framework

### UNIVERSITY OF CALIFORNIA, BERKELEY

August 2017 to Present

#### Tutor

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

### ALPHA PHI OMEGA

August 2017 to Present

#### Webmaster

- Updating biweekly announcements onto main page of member website
- Maintaining 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