Kyle Tse

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY   **Expected May 2020**
B.A. Computer Science, B.A. Cognitive Science
GPA: 3.78

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

MENTOR   **August 2017 to Present**
Computer Science Mentors
- Lead weekly discussions to solidy 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