

# KAIRUI ZENG

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## EDUCATION

- **UNIVERSITY OF CALIFORNIA, BERKELEY** Berkeley, CA  
B.A. in Computer Science May 2019  
**Organizations:** Berkeley Hyperloop, Computer Science Undergraduate Association, Cal Climbing  
**Classes:** Human Computer Interaction, Data Structures and Algorithms, Data Science Foundations  
**Skills:** Python, Java, NodeJS, Django, Cloud Computing, Data Science, Service Design, Pokemon Trainer

## WORK EXPERIENCE

- **PROPELLAND** San Francisco, CA  
Software Engineer May 2017 - Ongoing
  - Designed and built a medical hydration analysis platform for **2018 FIFA World Cup Russia**
  - Implemented the backend and API in Django; ReactJS for the front-end; used Celery and Redis for asynchronous tasks; implemented RabbitMQ for multi-device communication
  - Devised strategic business plans and built product pitches for Fortune 100 clients through facilitating multiple teams that handle primary research, ideation, and business strategy
- **UC BERKELEY ASUC - OFFICE OF THE CTO** Berkeley, CA  
Project Manager & Deputy CTO September 2016 - Ongoing
  - Oversee development of three products (BerkeleyTime, etc) used by over 60% of the student body
  - Led a team to create an autonomous webcasting service to improve course content accessibility
  - Built pipeline to process video and track lecturer's movement with an OpenCV framework in Python
- **HALO NEUROSCIENCE** San Francisco, CA  
Research Intern May 2014 - July 2014
  - Designed lab experiments to improve motor activity through transcranial direct current stimulation
  - Programmed motor skill tests in Javascript which tested participant reaction times and improvements
  - Confirmed viability of tDCS in high intensity sports through studies with eSports professionals

## LEADERSHIP AND PROJECTS

- **UAVS AT BERKELEY**  
Co-Founder and Racer
  - 2nd place in the 2016 National Collegiate FPV (First Person View) racing tournament
  - Obtained sponsorships worth over \$5k from companies such as DJI, 3DR, and Kespry
  - Oversaw organization-led research projects for mid-air refueling of UAS and first-person laser tag
  - Co-authored campus-wide policies regarding UAS safety and regulation with UC Regents Police
- **Box Lock**  
Smart Lock
  - Built the backend for a smart lock startup that will be launched in 2018 to protect home deliveries
  - Used an MVC framework in Django to deploy onto Heroku and a publish-subscribe pattern to link iOS
- **Microsoft**  
Berkeley Student Partner
  - Design technical workshops for students interested in technology in preparation for CalHacks
  - With together with Microsoft Partners to inspire and educate hundreds UC Berkeley students and empower them with the knowledge of how to use technology to achieve more