KAIRUI ZENG

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
Berkeley, CA
May 2019
B.A. in Computer Science

Organizations: Berkeley Hyperloop, Computer Science Undergraduate Association, Cal Climbing
Classes: Human Computer Interaction, Data Structures and Algorithms, Data Science Foundations
Skills: Service Design, Python, Java, SQL, Django, Jupyter, Docker, Javascript, UI, UX, Git, Pokémon trainer

WORK EXPERIENCE

PROPELLAND
San Francisco, CA
May 2017 - Ongoing
Creative Technologist
- Designed and built a medical hydration analysis platform to be used at 2018 FIFA World Cup Russia
- Implemented the backend and API in Django and deployed with Docker for production; used Celery and Redis for asynchronous task management and RabbitMQ for device communication
- Devised strategic business plans and built product pitches for Fortune 100 clients through primary research and ideation sessions

UC BERKELEY ASUC - OFFICE OF THE CTO
Berkeley, CA
September 2016 - Ongoing
Project Manager & Deputy CTO
- Overlook development of three products (BerkeleyTime, etc) used by over 60% of the student body
- Lead 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

HALO NEUROSCIENCE
San Francisco, CA
May 2014 - July 2014
Research Intern
- 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 EXTRACURRICULARS

UAVS AT BERKELEY
Co-Founder and Racer
- UAV-B finished 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 and Police

U-LED
Customizable Sound Reactive LED Strip
- Designed a sound-reactive LED strip that glows and flashes depending on BPM of music
- Built the backend with Flask and developed a VUI to be used with Amazon Echo and Google Home

FOODWAGON - TECHCRUNCH DISRUPT 2016 SF HACKATHON
Cisco Award Winner
- Designed and implemented a chat bot to promote company inclusion through lunch socials
- Used NodeJS, node-flint framework, Django, and MapQuest API to build platform for employees to easily join others for outings based on restaurant and hobby preferences