

Andrew Kan

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EXPERIENCE

Python Programmer Intern May 2019 - Present

CalSIM, UCLA Center of Health Policy Research

- Worked on improving a micro-simulation of how millions of CA individuals, families, and firms' decisions affect their medical plans and costs, used by the CA government
- Applied **Python** to optimize function runtimes by finding the most time-consuming functions (one function was over 50% of runtime) and improving their time complexity
- Currently researching **parallelization** libraries to further improve runtimes
- Added and deleted parameters to make the simulation more comparable to reality
- Wrote **bash** scripts to auto-generate **Sphinx** code documentation, and overhauled the entire public code documentation website, calsim.bitbucket.io

Data Journalism Reporter and Coder October 2018 - Present

Daily Bruin's Stack

- Reporter and coder for University of California, Los Angeles's data journalism blog
- Utilized **React**, **d3** (a JS library), and **flask** to create a responsive game and interactive graphs examining UCLA's [waste breakdown](#)
- Created dynamic graphs using **d3** to look at [trends within the paper's intern acceptances](#)
- Currently looking into UCLA progress towards its energy goals and **web scraping** how quickly classes fill up during enrollment

Web Developer Jan 2019 – Present

UCLA Creative Labs

- Created a social media app that appears functional but goes against all proper UX design to inform users of good UX practice, [flux.rip](#), and **reached over 100 people**
 - Used **Firebase** and **React** to implement posting and notification functionality, including image hosting and a real-time notification panel
- Worked as an interviewer and front-end developer to create a website that shares students' experiences to help users understand differing opinions and backgrounds

Hackathon Participant March 2019

LA Hacks

- Produced a game with **React** in which the user sorts trash into the correct wastebins for the sustainLA category

Web Developer October 2018 – Feb 2019

ACM Hack

- Used **Postman** and **React** to make a full-stack blog posting function and other projects
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EDUCATION

University of California, Los Angeles (UCLA) Fall 2018 – Spring 2022

Computer Science and Engineering

- GPA: 3.91, Tau Beta Pi Tutoring Chair and Webmaster, Upsilon Pi Epsilon
- Relevant Courses: Algorithms and Complexity, Computer Organization, Operating Systems

Mission San Jose High School, Fremont, CA Fall 2014 – Spring 2018

- USACO Platinum, USAPHO Bronze, AIME 5x Qualifier, HSHSP Research Assistant