

# Andrew Kan

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## Education

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

*Bachelors of Science: Computer Science and Engineering Major, Statistics Minor*

- **GPA: 3.91**
  - **Societies:** Tau Beta Pi Tutoring Chair and Webmaster, Upsilon Pi Epsilon, MentorSEAS
  - **Relevant Courses:** Algorithms and Complexity, Computer Organization, Operating Systems, Introduction to Data Science Fundamentals
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## Work 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**, **Pandas**, and **Numpy** to optimize function runtimes by finding and improving the most time-consuming functions (one function was over 50% of runtime)
  - Researching **dask** to parallelize the program and decrease runtime
  - Wrote **bash** scripts to auto-generate **Sphinx** code documentation, and overhauled the entire public code documentation website, [calsim.bitbucket.io](https://calsim.bitbucket.io)
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## Project Experience

**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
- 1. Utilized **React**, **d3** (a JS library), and **flask** to create a responsive game and interactive graphs examining UCLA's [waste breakdown](#)
- 2. Created dynamic graphs using **d3** to look at [trends within the paper's intern acceptances](#)
- 3. Currently web scraping using **Beautiful Soup** and **Selenium** to evaluate how quickly classes fill up during enrollment time

**Web Developer** Jan 2019 – June 2019

*UCLA Creative Labs*

1. Created a social media app, [flux.rip](https://flux.rip), that taught others of good UX practices and **reached over 100 people**
  - a. Used **Firebase** and **React** to implement posting and notification functionality
2. Interviewed students and developed the front-end of a website to share students' experiences from differing opinions and backgrounds

**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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## Skills

- **Languages:** C++, Python, Java, d3.js, React.js, HTML/CSS, Beautiful Soup, Selenium
- **Technologies:** git, Firebase, bash