

# Andrew Kan

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## Education

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

*B.S. Computer Science Major, Statistics Minor*

- **GPA:** 3.89
- **Societies:** Tau Beta Pi Vice President-Elect, Upsilon Pi Epsilon
- **Relevant Courses:** Machine Learning, Data Science Fundamentals, Algorithms and Complexity, Operating Systems, Mathematical Statistics, Data Structures

## Experience

**Python Programmer Intern** May 2019 – Nov 2019

*UCLA Center of Health Policy Research*

- Improved CalSIM, a [micro-simulation](https://calsim.bitbucket.io) used by the California government that predicts how individual and business insurance plans affect medical costs
- Utilized **bash** scripting and **Sphinx** to auto-generate documentation from docstrings and rebuilt the entire documentation website, [calsim.bitbucket.io](https://calsim.bitbucket.io)
- Analyzed performance bottlenecks using **Python**, **Pandas**, and **Numpy**, identifying one function that consumed over 50% of runtime, researched **dask** to parallelize the program
- Refactored the entire codebase from **Python 2** to **Python 3**

**Data Journalism Software Engineer** October 2018 - Present

*The Daily Bruin*

- Compared college [actions](#) and simulated hospital beds [needed](#) during the COVID-19 outbreak
- Collected and analyzed over 1.6 million data points using **Beautiful Soup**, **Selenium**, and **R** to observe [how quickly classes fill up during enrollment time](#), reaching over 2,000 readers in 1 week
- Designed and implemented a responsive [game](#) with interactive data visualizations examining UCLA's waste breakdown, using **React**, **d3.js**, and **Flask**

**Webmaster** June 2019 – Present

*Tau Beta Pi*

- Managed a **MySQL** database using **Django** and **Docker** of hundreds of members
- Migrated the database to include photos of officers
- Inserted new candidates and officers into the email database quarterly

## Projects

[Flux](#) Jan 2019 – June 2019

*UCLA Creative Labs*

- Created a social media website, [flux.rip](https://flux.rip), that taught over 100 people good UX practices
- Implemented posting and notification interactions using **Firebase** and **React**
- Collaborated with a design team through **Figma**

## Skills

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