

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:** 3.90 **Honor Societies:** Tau Beta Pi Vice President, 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](#) 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
- 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 Editor and Software Engineer October 2018 - Present

The Daily Bruin

- Directed and edited coverage of [a UCLA COVID-19 outbreak simulation](#) that reached 30,000 readers
- Compared college [actions](#) and predicted 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](#), getting over 2,000 readers in 1 week
- Designed a responsive [game](#) examining UCLA's waste breakdown, using **React**, **d3.js**, and **Flask**

Projects

[Class Tracker](#) July 2020

- Tracked enrollment status of UCLA in-person classes which were automatically formatted and uploaded to Google Drive with **Python** packages, receiving over 400 reactions on Facebook

[Webmaster](#) June 2019 – Present

Tau Beta Pi

- Managed a **MySQL** database using **Django** and **Docker** of hundreds of members
- Rebooted server after it was brought down by an **AWS** issue when upgrading Ubuntu versions

[Flux](#) Jan 2019 – June 2019

UCLA Creative Labs

- Created a social media website, flux.rip, that taught over 100 people good UX practices
- Implemented posting and notification interactions using **Firebase**, **React**, and **Figma**

Skills

- **Languages:** C++, Python, Java, HTML/CSS **Frameworks:** d3.js, React.js, Django
- **Technologies:** git, bash, Unix, Beautiful Soup, Selenium, Firebase, Docker, MySQL
- **Awards:** USACO Platinum, CodeDay Most Fun Game, USAPHO Bronze Medalist, 5x AIME