

# 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:** 3.87      **Societies:** Tau Beta Pi President, Upsilon Pi Epsilon Mentorship Chair
- **Relevant Courses:** Machine Learning, Data Science Fundamentals, Algorithms and Complexity, Operating Systems, Mathematical Statistics, Data Structures, Databases

## Experience

**Software Developer Engineer Intern**, Amazon *June 2021 – September 2021*

- Constructed **Java** interface that validates users' service inputs with their custom configurations, fixing a Severity 1 issue that caused hours of regional shopping downtime
- Onboarded several senior engineers and their teams to the interface, which is now used in millions of service creations and updates weekly
- Designed and created internal Java toolpage where users can view and compare the revision histories of their service creations

**Python Programmer Intern**, UCLA Center of Health Policy Research *May 2019 – Nov 2019*

- Enhanced CalSIM, a [micro-simulation](#) used by the California government that predicts how changes to individuals' and business' insurance plans affect their medical costs
- Rebuilt the entire documentation website and added a script that automatically updates and formats it
- Discovered 50+% simulation runtime bottleneck and proposed parallelization solutions
- Refactored the entire codebase from **Python 2** to **Python 3**

**Data Journalism Software Engineer and Assistant Editor**, The Daily Bruin *October 2018 - Present*

- Managed a team of more than 25 data journalists to write 7 articles as section editor for 1 year
- Compared college [responses](#) and simulated hospital beds [needed](#) during the COVID-19 outbreak
- Collected more than 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 a responsive [game](#) with **React**, **d3.js**, and **Flask** examining UCLA's waste breakdown

**Webmaster**, Tau Beta Pi *June 2019 – Present*

- Maintained a [website](#) and mailing server for members using **Django**, **Postfix**, and **Docker**
- Improved the website by adding officer photos, an events calendar, documentation, and other QOL

## Projects

**Datafest**, UCLA Team Stackers *April 2021*

- Analyzed possible association between state cannabis legality and drug misuse through dynamic [map](#)
- Won [Best Visualization](#) in yearly UCLA statistics competition with over 100 contestants and third place in ISI Florence Nightingale Prize for Data Visualization

**Flux**, UCLA Creative Labs *Jan 2019 – June 2019*

- Built a social media [site](#) that taught over 100 users good UX practices with **Firebase** and **React**
- Implemented user posting and notifications in collaboration with a design team through **Figma**

## Skills

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