Andrew Kan

Site: kandrewz.github.io Email: andrewzkan@gmail.com Linkedin: andrewzkan Github: kandrewz

Education

University of California, Los Angeles (UCLA) Fall 2018 – Spring 2022
B.S. Computer Science Major, Statistics Minor

- **GPA:** 3.86
- **Societies:** Tau Beta Pi, 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 Software Engineer October 2018 - Present
The Daily Bruin

- 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**
- Created dynamic charts using **d3.js** to analyze the *Daily Bruin's* recruitment trends

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, 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