

## CONTACT

+1 (415) 577-2830

[jliu23@berkeley.edu](mailto:jliu23@berkeley.edu)

[Jeffliu426.github.io](https://github.com/Jeffliu426)

## EDUCATION

UC Berkeley

BA Computer Science

& Economics 2014-2018

UC Berkeley Certificate in  
Technology & Entrepreneurship

GPA: 3.5

## COURSEWORK

### Computer Science:

Data Structures, Algorithms,  
Computer Architecture,  
Databases, Operating Systems,  
System Programming,  
Cybersecurity

### Math:

Calculus, Linear Algebra,  
Discrete Math & Probability,  
Statistics

### Econ:

Macro, Micro, Finance, Wealth  
& Poverty, Econometrics

### Self-Taught:

Machine Learning, Data  
Science, Internet Architecture

## SKILLS

**Languages:** Java, Python, C,  
Go, Swift

**Platforms:** Unix, Linux, iOS

**Databases:** MySQL, SQL,  
Apache Spark

**IDEs:** Eclipse, IntelliJ

**Web:** HTML, CSS, JavaScript

**Frameworks:** Selenium, Groovy

**Other:** Bilingual (English &  
Chinese-Mandarin)

# JEFFREY LIU

UC Berkeley Computer Science & Economics

## EXPERIENCE

### Red Pulse – *Software Engineer - Data Science Intern*

September – December 2018 – Shanghai, China

- Used Machine Learning – Natural Language Processing (Gensim, NLTK, Scikit) for text similarity and sentiment analysis algorithms in Chinese & English. Wrote software in Python that scrapes Twitter for tweets related to a given list of companies in real-time and records data to MySQL DB. Built Flask web app to aggregate & analyze public opinion of companies.

### Lending Club – *Software Engineer Intern*

April – June 2018 – San Francisco, CA

- Worked on internal dev tools team. Enhanced command line tools that improve efficiency & workflow on pull requests, code releases, etc. via Github's API, Jenkins, and Python.

### Federal Reserve Bank of SF – *Software Engineer Intern*

June – August 2017 – San Francisco, CA

- Built a dashboard to consolidate project status reports in Java. Wrote automated scripts in Java & Selenium to test apps. Used Python and machine learning to determine similarity in economies between industries in different locations across time with census data

### Domo – *Software Engineer Intern*

June – August 2015 – San Francisco, CA

- Developed a diffing program that logged updates w/ Spark and Java, tested performance for large-scale data processing. Automated UI tests with Selenium and Java.

## RESEARCH ASSISTANT POSITIONS

### Pacific Research Platform: Big Data Collab 02/2017 – 02/2018

- Set up and utilized network and data transfer technologies to run tests across campus that measure network performance and establish end-to-end usage expectations

### UC Berkeley – Data Science Twitter Project 02/2016 – 05/2016

- Assisted w/ using geocoded Twitter data and scalable machine learning algorithms to build a classifier that predicts peaceful & violent protest activity.

## PROJECTS

- Pitcher Similarity** – Used Python and machine learning algorithms from scikit-learn (K-Means, PCA) to measure similarity b/w baseball pitchers
- PintOS** – Implemented OS architecture in C with file I/O, memory & resource allocation, threading, synchronization, and scheduling
- SolBike & HomeR** – Startup projects in entrepreneurial environments in Berkeley & Portugal. Learned how to conduct market research and analysis, sales and marketing, product-market fit, pitch in front of venture capitalists, etc.