



## CONTACT

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## EDUCATION

### UC Berkeley

B.A. Computer Science &  
Economics 2014-2018

GPA: 3.5

### Coursework

#### CS:

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

#### Math:

Calculus, Linear Algebra, Discrete  
Math & Probability, Statistics

#### Econ:

Macro, Micro, Finance I & II, Wealth &  
Poverty, Econometrics

#### Self-Taught:

Machine Learning, Data Science,  
Internet Architecture

## SKILLS

### Languages:

Java, Python,  
C, Go, Swift

### Platforms:

UNIX, LINUX, iOS

### Frameworks:

Selenium

### Databases:

SQL, Apache  
Spark

### IDEs:

Eclipse, IntelliJ

### Web:

HTML, CSS,  
JavaScript

### Other:

Visio, Bilingual  
(English & Chinese-Mandarin)

# JEFFREY LIU

UC BERKELEY CS & ECON  
GRADUATING MAY 2018

## EXPERIENCE

### Federal Reserve Bank of SF 6/2017 – 8/2017 || IT Intern

- **CIO Dashboard** – Went from idea → research → prototype → production in 10 weeks. Currently used by executive management and 35+ PMs to consolidate project status reports and provide a high-level overview with visuals of all projects in the CIO's portfolio. Played a mixed role between PM and developer.
- **FinTech Lab** – Researched AI technologies. Built an economic model in a graph database. Used Python to conduct machine learning on census data sets
- **Test Automation Software Dev** – Created automated tests w/ Java & Selenium that ensure correct functionality of the apps that banks use to upload data
- **Technical Documentation** – Updated technical data flows & diagrams of tech stack and architecture for use in the server replacement program. Docs and visuals assisted officers in discussions of risks and risk mitigation strategies.
- **Cybersecurity** – Wrote a developer-focused article on NIST's new password guidelines. Gave a 20-minute presentation on the topic to 60+ cybersecurity professionals within the Federal Reserve System, including the CISO of the FRS

### Domo 6/2015 – 8/2015 || Software Engineering Intern

- Intern project consisted of learning Apache Spark, developing a diffing program that logged updates w/ Spark and Java, then testing its performance for large-scale data processing. Automated UI tests with Selenium and Java.

## RESEARCH ASSISTANT POSITIONS

### Pacific Research Platform: Big Data Collaboration 02/2017 – 08/2017

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

### UC Berkeley Social Apps Lab – FinTech & Homeless 02/2017 – 05/2017

- Research helping the homeless thru FinTech by comparing FinTech products, contacting FinTech startups & local health service organizations, reading academic literature, designing feasibility studies & cost-effectiveness models.

### 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 (K-Means, PCA) on baseball data set to measure similarity b/w pitchers
- **LocalEats** – Developed an iOS app in Swift w/ Yelp's API that presents local restaurants for users to choose from and save for later
- **Stager** – Created a web app using Firebase and Bootstrap to have custom news feeds of each concert stage at music festivals
- **Pintos** – Implemented OS architecture in C with file I/O, memory & resource allocation, threading, synchronization, and scheduling