



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*

Math:

*Calculus, Linear Algebra, Discrete
Math & Probability, Statistics*

Econ:

*Macro, Micro, Finance, Wealth &
Poverty, Econometrics*

Self-Taught:

*Machine Learning, Data Science,
Cybersecurity*

SKILLS

Languages:

Java, Python, C,
Swift

Databases:

SQL, Apache
Spark

Platforms:

UNIX, LINUX, iOS

IDEs:

Eclipse, IntelliJ

Frameworks:

Selenium

Web:

HTML, CSS,
JavaScript

Other:

Visio, Bilingual
(English &
Chinese-
Mandarin)

JEFFREY LIU

UC BERKELEY CS & ECON '18

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 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 datasets
- **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

- Learned Apache Spark to develop a diffing program that logged updates to a database with Spark and Java, tested performance for large-scale data processing. Automated Testing w/ Selenium

RESEARCH ASSISTANT

Pacific Research Platform: Big Data Collaboration 2/2017 – 08/2017

- 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 Social Apps Lab – FinTech & Homeless 02/2015 – 05/2015

- Research helping the homeless through financial technology by comparing FinTech products, researching academic literature, designing feasibility studies and cost-effectiveness models.

PROJECTS

- **Pitcher Similarity** – Used Machine Learning Algorithms (K-Means, PCA) on a baseball data set to create a metric that measures similarity between pitchers
- **LocalEats** – Developed an iOS app w/ Yelp's API that presents local restaurants for users to choose
- **Stager** – Created a web app using Firebase and Bootstrap with custom news feeds of each concert stage at music festivals
- **PintOS** – Implemented OS architecture in C with file I/O, threading, synchronization, and scheduling