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, Billingual (English & Chinese-Mandarin)

JEFFREY LIU

UC BERKELEY CS & ECON '18

EXPERIENCE

Federal Reserve Bank of SF *6/2017 – 8/2017 || FinTech 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 & machine Learning Algorithms (K-Means, PCA) on a baseball data set to measure similarity between 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