

Jeffrey Liu

Email: Jliu23@berkeley.edu

LinkedIn: <https://www.linkedin.com/in/jeffrey-liu-486101129/>

Phone: (415) 577-2830

Website: jeffliu426.github.io

Education

University of California, Berkeley. B.A. Computer Science & Economics Graduation Date: May 2018

Technical Coursework: (GPA: 3.50)

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 Coursework: Machine Learning, Data Science, Cybersecurity

Skills

Languages: Java, Python, C, Swift

Web: HTML, CSS, JavaScript

IDEs: Eclipse, IntelliJ

Databases: SQL, Apache Spark

Platforms: UNIX, LINUX, iOS

Frameworks: Selenium

Other: Visio, Bilingual

(English & Chinese-Mandarin)

Experience

Internships:

- **Federal Reserve Bank of SF – IT Intern** (6/2017 – 8/2017)
 - **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.
 - **FinTech Lab** – AI research, graph databases, and Machine Learning on census datasets
 - **Test Automation Software Development** – Developed automated tests using Java and Selenium
 - **Technical Documentation** – Updated technical data flows, diagrams for use in the server replacement program which assisted officers in discussions of risks and risk mitigation strategies
 - **Cybersecurity Newsletter** – Wrote developer-focused article on NIST's new password guidelines and presented to over 60+ cybersecurity professionals, including the CISO of the FRS
- **Domo – Software Engineering Intern** (6/2015 – 8/2015)
 - 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 Assistantships:

- **Pacific Research Platform: Big Data Collaboration** (2/2017 – Present)
 - 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 – Financial Technology and the Homeless** (2/2017 – 5/2017)
 - Research helping the homeless through financial technology by comparing FinTech products, researching academic literature, designing feasibility studies and cost-effectiveness models.
- **UC Berkeley – Data Science Twitter Project** (2/2016 – 5/2016)
 - Assisted with using geocoded Twitter data and scalable machine learning algorithms to build a classifier that predicts peaceful and violent protest activity.

Projects

-
- **Pitcher Similarity** – Used Machine Learning Algorithms (K-Means, PCA) on a baseball dataset 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 with custom newsfeeds of each concert stage at music festivals
 - **PintOS** – Implemented OS architecture in C with file I/O, threading, synchronization, and scheduling