

# Jeffrey Liu

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## Education

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**University of California, Berkeley** Graduation Date: May 2018

**B.A. Computer Science and Economics** (GPA: 3.56)

### Technical Coursework:

**CS:** Programming (CS 10/61A), Data Structures & Algorithms (CS 61B/170), Computer Architecture (CS 61C)

**Math:** Calculus (Math 1A/1B), Linear Algebra (Math 54), Discrete Math & Probability (CS 70), Statistics (Stat 20)

**Econ:** Macroeconomics (Econ 100B), Microeconomics (Econ 100A – Sp' 17), Public Policy (PP 103)

## Experience

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### Internships:

- **Domo – Software Engineering Intern** (6/2015 – 8/2015)
  - Designed and managed a data management project that integrated with Amazon EC2 and company databases. Self-taught Apache Spark for large-scale data processing. Automated UI testing with Selenium and Java.

### Research Assistantships:

- **UC Berkeley – Data Science Ethnography Research** (2/2015 – 5/2015)  
*Supervisor:* Charlotte Mazel
  - Observed and partook in two groups (Computational Text Analysis and Hacker Within) to study the best practices for learning data science.
  - Results from my study helped form new introductory data science courses at UC Berkeley.
- **UC Berkeley – Data Science Twitter Project** (2/2016 – 5/2016)  
*Supervisors:* Lefteris Anastasopoulos, Jake Williams
  - Used geocoded Twitter data and machine learning algorithms to model and predict peaceful and violent protest activity. Had substantial input based on data analysis of the language in the tweets

## Projects

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- **LocalEats**
    - Brainstormed and built an iOS App that presents the user with local restaurants to choose from in a Tinder-esque manner
    - Worked on product design (Swipe Right/Left functionality) and backend (using Yelp API)
  - **CSV Diffing Program**
    - Designed a program that compares a high volume of CSV files at a time and logs the differences using Spark and Java
  - **Built Simplified Version of Git in Java**
    - Implemented commands such as add, commit, remove, checkout, branch, reset, merge, rebase
  - Developed games (Dice Game HOG & Ants Vs. Bees) in Python and Java (Checkers)
  - Wrote an Assembler in C and Linker in MIPS
  - Built a Scheme language interpreter in Python

## Skills

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- Experienced: Java, Python, Swift, LaTeX
  - Proficient: C, Spark, SQL, R, HTML/CSS/Javascript, Assembly
  - Bilingual (English and Chinese-Mandarin) – Studied Abroad In Beijing, China (6/2016 – 8/2016)
  - Sportswriter for The Daily Californian newspaper