

# Alan Liang

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## Education

### University of California, Berkeley

Exp. Grad May 2021\*

B.A. in **Computer Science**, B.A. in **Economics**

Minor in Data Science, Certificate in Entrepreneurship & Technology

**GPA: 3.93 (Technical GPA: 3.98), Dean's Honor List (top 4%)**

**Computer Science** Databases, UI/UX, Algorithms, Data Structures, Machine Struct.

**Economics** Macro/microeconomics, Econometrics, Public Econ, Macro Policy

**Data Science** Data Science, Business Analytics, Data & Decision Making

**Misc** Product Management, Cryptocurrencies, Linear Alg & Diff Eq, Multi-Var Calc

\* Intend on graduating with a MS degree in Spring 2021

## Experience

### QuantCo

Data Scientist Intern

Jun 2019 - Current

San Francisco, CA

- Consult for a market-making tech company in data science and economics.
- Develop and improve market pricing models in R & python, reducing error by 50%.
- Deploy models on GCP (tensorflow), incorporating them into data pipelines.
- Conduct economic research to understand market and pricing strategies.
- Start effort to create a common technical knowledge base across team.

### Div. of Data Sciences, UC Berkeley

External Team Lead

Jan 2018 - Current

Berkeley, CA

- Lead team of 15 people to strategize and grow data science education initiatives by leading to build a national community of practice. Collaborate with institutions to help implement data science infrastructure and adopt data science pedagogy.
- Run a 70k+ student edX MOOC, developing course auto-grading infrastructure in python and providing active support to students and community colleges.
- Coordinated NSF-backed workshops w/ 60+ universities on data sci pedagogy.

### UC Berkeley

Undergraduate Student Instructor & Tutor

Aug 2018 - Current

Berkeley, CA

- Teach weekly sessions & hold office hours for *Data 8: Foundations of Data Science*.
- Lead and create the first data science economics connector course (DATA 88).
- Course administrator for CY 298, a 40+ grad student data science intro course.

### Sutardja Center for Entrepreneurship Tech

Full Stack Developer

Aug 2018 - May 2019

Berkeley, CA

- Work on the Berkeley Innovation Index, an individual assessment that measures innovation and other personal qualities to provide recommendations.
- Build backend infrastructure and data pipeline in python, deployed on AWS.

### Seele Tech

Software Engineering and Data Analytics Intern

May 2018 - Aug 2018

San Francisco, CA

- Implemented data pipeline of social metrics from scratch: wrote programs for data collection, deployed databases, conducted data analysis for insight, and made a live dashboard to present metrics and KPIs. Used AWS for deployment.
- Created bots for alerts and auto moderation in channels with 30k+ members, using NLP for sentiment monitoring and ML classifiers for spam detection.
- Wrote technical articles, translated documentation, and conducted blockchain algorithm research for project white paper and yellow papers on consensus.

### Microsoft

Program Management Intern

May 2017 - Jul 2017

Shanghai, China

- Worked on customer acquisition for Azure IoT tooling through search engine optimization, AB testing, customer development, and developer outreach.
- Conducted web traffic and user telemetry analysis through SQL dialects & Power BI for data insight to improve conversion and optimize user experience.
- Helped double monthly traffic and grow monthly attached users by 6 times.

## Research & Projects

### Conspicuous Consumption

Work with Economics PhD Candidate Max Mueller to scrape and analyze social media data for research on individual conspicuous consumption. Utilized Azure Cognitive Services API and implemented other classifiers for predictions and feature analysis.

### National Data Sci Education

Co-author of peer-reviewed papers examining data science education and infrastructure in US & Canadian universities. Paper was presented at SciPy2018 & 2019 and JupyterCon.

### Dish Based Reviews

Scraped all Yelp reviews in SF, extracted relevant information, and performed polarity sentiment analysis to provide dish recommendations at any restaurant in SF. Built new sentiment analyzer from review data.

### Data Sci Module Development

Create interactive course content in utility and income inequality for *Data 88: Economic Models* in python on Jupyter Notebooks, leveraging real-world economic datasets.

### RemindMe!

Built a collaborative to-do list app on Android with cloud sync for caretakers.

## Activities

### Microsoft Student Partner

Empower students with technology mainly focusing on Azure services.

### Computer Science Mentor

Teach weekly sessions for *Discrete Math and Probability* (CS 70) with Computer Science Mentors (CSM).

### UPE Nu Chapter

Member of UPE's UC Berkeley chapter, a computer science honor society. Part of web development committee.

### Quiz Bowl and History Bowl

Staff and moderate local & national tournaments. Organized and led team to win multiple international competitions around Asia. Club President and Team Captain in High School (2013-2016).