

Alan Liang

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Education

University of California, Berkeley **Exp. Grad May 2020**
Computer Science B.A., **Economics** B.A., Cert. in Entrepreneurship & Tech
GPA: 3.90, Technical GPA: 3.97, Dean's Honor List (**top 4%**)
Data Science Data Science, Data & Decision Making in Business, Statistics
Computer Science Databases, UI/UX, Algorithms, Data Structures, Cryptocurrency
Math Discrete Math and Prob, Linear Algebra & Diff Eq, Multivariate Calculus

Work Experience

SEELE TECH **May 2018 - Aug 2018**
Implemented **data pipeline** of social metrics from scratch. Wrote scripts for data collection, deployed databases, conducted **data analysis** to provide insight, and made a live dashboard to present metrics and KPIs, utilizing **AWS** for deployment. Created bots for alerts and auto moderation in channels w/ **30k+ members**, including **sentiment monitoring** and spam **classification**. Wrote technical articles, translated documentation between Chinese & English, and conducted blockchain algorithm research for project white paper and yellow papers.

DIV. OF DATA SCIENCES, UC BERKELEY **Jan 2018 - Current**
Team lead and **project manager** for external data science pedagogy and infrastructure team. Strategize and grow national data science education initiatives by leading to build a community of practice. Collaborate with and assist other institutions to help implement data science infrastructure and adopt data science pedagogy by leveraging Berkeley's experience and resources. **Coordinated a national workshop of 40+ universities** on data science pedagogy.

MICROSOFT **May - Jul 2017**
Program management intern in Microsoft C+E's Developer Division for Azure IoT tooling. Worked on **customer acquisition** through **search engine optimization**, **AB testing**, **customer development**, and developer outreach. Conducted **web traffic analysis** and analyzed user telemetry through **SQL** dialects and **Power BI** for **data insight** to **improve conversion** and **optimize user experience**. Helped **double monthly traffic** and **grow monthly attached users by 6 times**.

XYZ-E EDUCATION GROUP **Jan - Mar 2016**
Paid student intern conducting question and **knowledge-point analysis** with machine-learning software used for personalized learning in mathematics.

Research and Projects

Conspicuous Consumption in Nightclubs | Python
Work with 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.

Predicting the Effects of Trump's Tax Cuts | Python, Jupyter
Conducted **multi-feature linear regression** of historical tax data to predict the effects of Trump's tax cuts on income inequality.

Git Version Control System | Java
Created a Git-like local version control system for files.

The Lorenz curve and Income Inequality
Analyzed math models of the Lorenz curve and their implications on the Gini index.

Data Science Education Infrastructure
Co-author of peer-reviewed paper examining data science education infrastructure in US & Canadian universities. Paper was presented at SciPy2018 and Jupytercon.

Skills

Data
Python (NumPy, Pandas, sklearn etc), SQL, R, Testing, Validation, Visualization, Modeling & Prediction, Google Analytics, Excel, Power BI

Program Management
Scrum/agile processes, customer development, A/B and user testing, Microsoft Sharepoint

Backend
Python, Java, SQL & RDBMS, UNIX, NoSQL (MongoDB, Redis), AWS and Azure services

Native Languages
English, Chinese

Others
Scripting, Git, HTML & CSS, Technical & Documentation Writing, web scraping, LaTeX, Microsoft Office, Photography, Photoshop, Indesign, Final Cut Pro

Activities

Data Science Tutor
Paid course staff for *Foundations of Data Science* (Data 8). Teach 2 weekly sessions, grade homework, hold office hours, and more.

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.

Lab Assistant
Assist students in multiple labs for *The structure and interpretation of computer systems* (CS 61A) weekly.

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