

Alan Liang

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Education

University of California, Berkeley

Exp. Grad 2020

Computer Science B.A., Economics B.A.

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 Data Structures, Efficient Algorithms, Cryptocurrencies

Math Discrete Math and Prob, Linear Algebra & Diff Eq, Multivariate Calculus

Experience

SEELE TECH

May 2018 - Current

Work on a variety of projects at a blockchain startup in SF. Created program and bots for alerts and **automatic moderation** in community channels, utilizing **AWS** for deployment. Conducted **sentiment analysis** on social platforms, analyzed **web traffic** to improve engagement, and **created live dashboard** to display relevant social media metrics from common APIs. Helped devise efficient, scalable blockchain consensus algorithms, edited project whitepaper, and wrote technical articles. Other projects included growth hacking by leveraging existing communities, intern management, and community engagement.

DIV. OF DATA SCIENCES, UC BERKELEY Jan 2018 - Current

Student **project manager** for internal and external expansion of data science education and research. Manage projects on **long term technical sustainability** and **expansion**, including **establishing workflows** and training processes. Collaborate with internal teams to create and maintain resources, tools, and documentation. Communicate with other national institutions to help adopt data science infrastructure, build an academic data science community, and **coordinate a national workshop** 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

Instagram Data | Python

Worked with PhD Candidate Max Mueller to **scrape and analyze social media data** for research on conspicuous consumption at clubs. Utilized **Azure Cognitive Services API** and other classifiers to create predictions for feature analysis.

Predicting Trump's Tax Cuts | Python, Jupyter

Conducted multivariate 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.

Skills

Data Analytics

Python, Pandas, NumPy, Scikit-Learn, Hypothesis Testing, Data Validation, Visualization, Modeling, Regression and Classification, Feature Analysis, Power BI, Google Analytics, Excel

Program Management

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

Backend

Python, Java, SQL and various dialects, UNIX, MongoDB, Redis, AWS and Azure services

Native Languages

English, Chinese

Others

HTML & CSS, Git, Technical and Documentation Writing, LaTeX, Debugging, Microsoft Office, Adobe Photoshop, Adobe Indesign, Final Cut Pro

Activities

Computer Science Mentors

Teach weekly sessions for *Discrete Mathematics and Probability* (CS 70).

Lab Assistant

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

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 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).