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%**)
Computer Science Databases, UI/UX, Algorithms, Data Structures, Cryptocurrency
Data Science Data Science, Data & Decision Making in Business, Statistics
Math Discrete Math and Prob, Linear Algebra & Diff Eq, Multivariate Calculus

Work Experience

Div. of Data Sciences, UC Berkeley   **Jan 2018 - Current**
External Team Lead
- Lead team to strategize and grow data science education initiatives by leading to build a national 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, including running a 40k+ student edX MOOC.
- Coordinated a NSF-backed workshop of 40+ universities on data sci pedagogy.

Sutardja Center for Entrepreneurship Tech   **Aug 2018 - Current**
Full Stack Developer
- 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, deployed on AWS.
- Create data dashboards with plotly & flask, and automated reports & emails.

Seele Tech   **May 2018 - Aug 2018**
Software Engineering and Data Analytics Intern
- 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   **May 2017 - Jul 2017**
Program Management Intern
- 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 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.

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

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

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

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

Languages
Bilingual in 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.

Microsoft Student Partner
Empower students with technology by hosting workshops and events 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).