Emily Xu

(908) 723-8510 | emilyxu497@gmail.com
github.com/emily-xu/work-samples

EDUCATION

University of California - Berkeley *Senior*   May 2019
- Bachelor of Arts in Computer Science, Bachelor of Arts in Economics
- Certificate in Human Centered Design
- **GPA:** 3.5   **SAT:** 2370 (800 R, 800 W, 770 M)

SKILLS

- Programming: Python (Pandas, TensorFlow), Hadoop/Hive/HQL, Java, SQL, C, Objective-C
- Software: Photoshop, Excel, Powerpoint, Sketch, Stata, LaTeX
- Coursework: Machine Learning, Algorithms, Artificial Intelligence, Principles of Data Science, Data Structures, Computer Architecture, Discrete Math, Linear Algebra

WORK EXPERIENCE

Visa Inc. *Data & Product Manager Intern*   May 2018 – Present
- Applied machine learning to transaction data to produce revenue-generating consumer insights
- Adapted neural net and Natural Language Processing models into new data product features
- Customized graph theory/deep learning model, placed 1st in site and 2nd globally in Visa hack-a-thon

Federal Deposit Insurance Corporation (FDIC) *Economic Analyst Intern*   May 2017 – August 2017
- Evaluated economic and banking data to identify and limit financial risks to FDIC insured institutions
- Produced charts, presentations, and reports used in nation-wide bank regulation conferences

Kirusa Inc. *Data Analytics Intern*   June 2016 – August 2016
- Executed user similarity and social network analysis on InstaVoice App usage data in Python, SQL
- Developed recommendation system that increased subscription revenue from 3 to 50 percent
- Devised nearest neighbor algorithm using locality sensitive hashing, improved runtime 97 percent

ACTIVITIES AND LEADERSHIP

People's Test Preparation Service *Executive Director*   May 2017 – Present
- Managed 40 person non-profit organization, provided SAT prep to 200 disadvantaged students a year
- Oversaw a 7 person officer board, led weekly meetings and lessons in classroom management
- Maintained positive relationships with parents, sponsors, site partners, and campus administration

DiversaTech Consulting *External Vice President*   May 2018– Present
- Planned and orchestrated campus-wide hack-a-thon style event and internal development conference

Project Manager   January 2018– May 2018
- Supervised research, data analysis of 8 consultants tackling a public relations industry-wide problem

Data Science Society at Berkeley *Data Analyst*   January 2017 – Present
- Implemented econometric models to study micro-finance loan popularity with Kiva Microfunds
- Optimized borrower profiles based on results, increased loan dollars received per day by 10 percent

PROJECTS

Pacman AI Project   Sept 2017 – Dec 2017
- Wrote Pacman game implementations that include search algorithms, Markov Decision Processes, reinforcement learning, Bayes Nets, and other foundations of artificial intelligence