

Emily Xu

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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
- Computer Science Coursework: Algorithms 170, Principles of Data Science c100, Artificial Intelligence 188, Machine Learning 189, Data Structures 61B, Computer Architecture 61C

WORK EXPERIENCE

Visa Inc. *Data & Artificial Intelligence Intern*

May 2018 – Current

- Applied machine learning to transaction data to produce revenue-generating consumer insights
- Adapted neural net and Natural Language Processing model to predict customer behavior

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 free SAT prep to 200 low-income students
- Directed a 7 person officer board and conducted weekly board meetings, maintained relationships with clients, sponsors, site partners, and campus organizations

DiversaTech Consulting (client: Adobe) *Tech Consultant/Project Manager*

January 2017– Present

- Built an interactive chatbot that dispersed agricultural information to farmers in West Bengal, India
- Pulled and parsed data from APIs and used it to train our machine learning API to answer questions

Data Science Society at Berkeley *Data Analyst*

January 2017 – Present

- Assembled API data, implemented statistical and econometric models (Pandas Python) to study loan popularity in partnership with microfinance non-profit 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 in Python