Junchen Zhao

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I am a strong believer in the potential of statistics and data in the Information Age. I am a fast learner and experimenter because I am passionate about new knowledge and skills. I love applying math tools and algorithms to model real-world scenarios.

Education

2018—Present: UC San Diego, majoring in Probability and Statistics, minoring in Data Science.
3.952 GPA, 3-time Provost Honors.

2012—2018: Suzhou Industrial Park Xinghai Experimental Middle School(苏州工业园区星海实验中学)
4.0 GPA, TOEFL 107.

Work Experience

2019 summer: Research Intern in Quantitative Trading Strategies — Beijing iVolution Capital

Research Experiences

1. High Frequency Trading Strategy on Noise Return of Stock Index Futures — 2019
2. Math Expectation of the Number of Suits in N Poker Cards — 2017
3. Experiments and report on Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide Heterostructure at Soochow University — 2017

Skills

1. C/C++ and STL.
2. Python 3 and packages including datascience, numpy, re, requests, and cv2.
3. Machine Learning packages including keras, tensorflow, and pytorch.
4. Java and object oriented design, and JavaFx platform.
5. Linux/Unix operating and shell script.
6. R and Matlab: simulation and computation.
7. Node.js with Express, jade, and MongoDB.
8. HTML, Javascript, and CSS; Canvas in HTML5.

Projects

1. Cubot — Rubik's Cube Solving Machine — 2016-2017
2. Online Poker Platform — 2017
3. Are the last 40 chapters in Dream of the Red Chamber from Xueqin Cao?
   —Non-dictionary text-parsing and Principle Component Analysis — 2018
4. Java implementation of Tetris — 2018
5. Markov Model in rudimentary text prediction and image prediction — 2018

Relevant Coursework

Stochastic Processes
Probability Theory
Differential Equations
Basic Data Structure and OO Design
Deep Learning and Natural Language Processing
Mathematical Statistics
Real Analysis
Graph Theory
Computer Organization and System Programing
Principles of Data Science