# 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

## Skills

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

## Projects

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| 1. Machine to Solve Rubik's Cube | 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 |

## Research Experiences

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

## Summer Programs

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| 1. Stanford Pre-Collegiate Studies: Web Technologies | 2017 |
| 2. Harvard Summit for Young Leaders in China | 2017 |
| 3. Olympiad in Informatics Summer Camp | 2016 |