

# Yuan Gao

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## EDUCATION

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UNIVERSITY OF CALIFORNIA, SAN DIEGO 2018.9-PRESENT

– BACHELOR OF SCIENCE IN COMPUTER SCIENCE

– MAJOR GPA:3.9/4.0

UNIVERSITY OF CALIFORNIA, BERKELEY 2017.6-2017.8

– GPA:3.37/4.0

## SKILLS<sup>1</sup>

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### TECH-SKILLS

- **PROGRAMMING LANGUAGES:** PYTHON, JAVA, C/C++, SHELL, MATLAB, JAVASCRIPT
- **DATABASE LANGUAGES:** MYSQL
- **MODULES:** NUMPY, MATPLOTLIB, SCIKIT-LEARN, PANDAS, BEAUTIFULSOUP, SELENIUM, TENSORFLOW
- **OPERATING SYSTEMS:** UNIX/LINUX
- **SOFTWARES:** TABLEAU, GOOGLESHEET, MICROSOFT OFFICE
- **WEB TECHNOLOGY:** JAVA SERVLET PAGES(JSP)

### SOFT-SKILLS

- GOOD AT QUICK LEARNING, KEEPING HUNGRY FOR NEW TECHNOLOGIES, WRITING AND COMMUNICATING
- COMFORTABLE WITH WORKING IN A TEAM AND SPEAKING IN FRONT OF CROWD

## PROJECTS<sup>2</sup>

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### DATA WRANGLING&CLEANING ON MASSIVE REAL WORLD DATA 2019.3

UC San Diego Data&GIS Lab's Data Wrangling Competition

- Cleaned a real-world messy weather dataset with over **10 million rows** of data and with **20% missing/unformatted data**
- Filled missing value using **Scikit-learn**, Pandas, and Matplotlib by implementing my own cleaner class and functions
- Utilized **Supervised Learning algorithms** (Multivariate Linear regression & Support Vector Regression) to predict precipitation
- Minimized my code complexity by choosing different data structures
- **Won this competition as the only winner**

### STATISTICALLY TESTING THE EXISTENCE OF SOCIAL MEDIA BOTS 2019.1

UC San Diego COGS9: Introduction to data science.

- Analyzed the posts of a celebrity suspected to use bots on internet to add popularity
- Web-scraped **more than 5000** posts from Weibo, the biggest social media with **the strongest anti-scraping technology**
- Employed **A/B test** to check whether the test statistic is statistically significant
- Utilized **NLP packages** in Python(NLTK and Jieba) to find evidence for the existence of social media bots

### VISUALIZING FACEBOOK INFORMATION OF HDSI 2018.12

UC San Diego Halicioglu Data Science Institute Student Shoutout

- Web-scraped **all posts (more than a year)** from HDSI Facebook account
- Made a world cloud **out of thousands of words** to show HDSI's working emphasis
- Posted by HDSI on its **official website**<sup>3</sup>
- The visualized world-cloud is used by HDSI as a pattern on the department's shirt

## CERTIFICATES

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### HIGH PERFORMANCE COMPUTING CERTIFICATE

San Diego Supercomputer Center

- Attended a 10 week training session on introductory parallel computing and gpu computing provided by SDSC

### MACHINE LEARNING CERTIFICATE

Coursera.org

- Finished the Machine learning course taught by Andrew Ng

## HONORS

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### WINNER OF UCSD DATA WRANGLING CONTEST 2019.3

UC San Diego Data&GIS Lab

### UCSD PROVOST HONOR 2019.1

UC San Diego Eleanor Roosevelt college

## EXPERIENCE

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### SOFTWARE ENGINEER INTERN 2019.6-PRESENT

China Telecom Cooperation Limited

- Using a framework called Jeesite which is based on Maven, Spring, SpringMVC, Mybatis, and etc
- Writing controllers using SpringMVC

### WEB DEVELOPMENT INTERNSHIP 2017.10-2018.1

Nanchang University, China

- Followed graduate IT students to develop a web application for a local hospital
- Implemented Java and Mysql code for JSP and Servlet application(JDBC involved)
- Learned basic syntax and application of HTML/CSS

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<sup>1</sup> **Relative Coursework:** Data Structure and Algorithm in Python, Java, C/C++. Data fetching/ cleaning/ analysis/ modeling. Multivariable Calculus and Linear algebra. Probability and Statistics.

<sup>2</sup> **More detailed description:** On my Github [www.github.com/Rabona17](https://www.github.com/Rabona17)

<sup>3</sup> **HDSI Official Website:** [https://ucsdnews.ucsd.edu/pressrelease/data\\_science\\_freshman\\_makes\\_his\\_first\\_cloud](https://ucsdnews.ucsd.edu/pressrelease/data_science_freshman_makes_his_first_cloud)