Yanzhou Pan

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EDUCATION

- **Rice University** **Houston, Texas**
Master of Computer Science *Aug. 2019 - Expected May 2021*
- **Wuhan University** **Wuhan, China**
Bachelor of Engineering   *Cumulative GPA: 3.63/4.0(top 10% in the class)*   *Sept.2015- Jun.2019*
- **University of California, Berkeley** **Berkeley, California**
Global Exchange Program *Jan.2018 – May 2018*

COURSES & AWARDS

- **Relevant Courses:** Data Structure(C), The Design and Analysis of Algorithm(Python), The Principles of Database(SQL), Web development(HTML, JS) etc.
- **Awards:** Outstanding Student Cadre (Top5%) (2016-2017); National Excellent Student Scholarship (Top10%) (2016-2018); Honorable Mention of COMAP's Mathematical Contest in Modeling (2017)

PROFESSIONAL EXPERIENCE

Wuhan GEETEST Network Technology Co., Ltd. **Wuhan, China**
Machine learning and data analysis Intern *Dec.2018-Jul.2019*
GEETEST is the largest interactive security service provider in China, focusing on human-machine identification.
- Participated in the development of captcha rules, including **black IP** discrimination and **Track** discrimination etc. which can be used for effective human-machine identification
- Analyzed web captcha data using **Pyspark** and **Hadoop**
- Wrote data analysis reports for customers, including pattern analysis of abnormal data and corresponding processing recommendations

RESEARCHES & PROJECTS

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data
State Key Laboratory of Software Engineering, Wuhan University *Feb.2018-Oct.2018*
- Proposed a fast similarity measure for time series, which could reduce the average running time of the clustering by about 30% without affecting the accuracy
- Introduced a semi-supervised learning method called Side-information Generation Strategy (SGS), which could further improve the clustering result by 5%, with only a small amount of manually picked side-information (Less than 10% of the total data set)
- Completed the experiments and the paper, which has been published on *IEEE Transactions on Systems, Man, and Cybernetics: Systems.*

Qingzhi-Unmanned Restaurant Payment System
University-level Entrepreneurial Project, Wuhan University *Oct.2016-Jun.2017*
- Developed the image recognition function, which is based on CNN (Convolutional Neural Network)
- Completed the data collection and the preliminary development of the system, which was more than 95% accurate in identifying everyday dishes
- Won the second prize in the Third "Internet plus" Innovation and Entrepreneurship Competition (Wuhan University Division, China)

ACADEMIC ACTIVITIES

- **Publication:** A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data, *IEEE Transactions on Systems, Man, and Cybernetic*s: Systems PP(99):1-16 · August 2019, DOI: 10.1109/TSMC.2019.2931731 Link to the Paper
- **Conference:** Conference Guest of the CCF (China Computer Federation) Big Data Conference 2018 *Oct.2018*

SKILLS

- **Programming:** Python, MATLAB, C, Java, HTML, JavaScript
- **Software:** SPSS, Excel, Oracle, MySQL
- **Language:** Mandarin Chinese (Native), English (TOEFL 109)
- **Leadership:** Team Leader of the College Debate Team, President of the Student Union & Class Monitor, Captain of a campus band