Jingguang Zhou (Richard Chau)

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🎓 EDUCATION

Shanghai Jiao Tong University (SJTU), Shanghai, China   2014 – 2018(Expected)

B.S.E. in Computer Science, Department of Computer Science and Engineering
Student of IEEE Honor Class, Rank 7/75, GPA 90/100

Yali Middle School, Changsha, Hunan, China   2011 – 2014

◎ ACADEMIC

Improved regional multi-person pose estimation   Oct. 2016 –

- Supervised by Professor Cewu Lu.
- Adopted deep learning method to improve the effects of the systems using Torch and Caffe.

Attended the seminar of algorithm designs   Jan. 2016 – Dec. 2016

- Supervised by Professor Xiaofeng Gao.
- Studied materials from three books "Introduction to Algorithms", "Approximation Algorithms" and "Randomized Algorithms" and conducted research on solving optimization problems
- **Jingguang Zhou**, Haotian Wang, Xiaofeng Gao, Guihai Chen, "Quality-Aware and Penalty-Sensitive Opportunistic Crowdsensing in Mobile Relay Networks," IEEE International Conference on Distributed Computing Systems (ICDCS, CCF Level B), 2017. (submitted)

Explored the relationship among academic literatures   Apr. 2015 – Nov. 2015

- Supervised by Professor Xinbing Wang.
- Zhaowei Tan, Changfeng Liu, **Jingguang Zhou**, "Big Data Analysis Based on the Citation Relationship among Academic Literatures." a Chinese Invention Patent. (submitted)

👥 PROJECT

Designed better computer Go with deep neural networks   Dec. 2016

- Led a team of 4 people and built a system of computer Go (an ancient game in China) using Keras and C++, achieved 0.52 as the train accuracy and 0.50 as the test accuracy
- Beat DarkForestGo AI (Facebook) with high probability and beat all DarkForest-based teams in the Artificial Intelligence course. Here is the report in Chinese.
- Reduced the weights of DarkForest by 94% and increased the convergence rate by 400%

Developed a carpooling application   Mar. 2016 – June. 2016

- Led a team of 5 people and provided them with encouragement and technical help
- Designed rules of both system response and data processing in every stage
- Provided drivers' rating from historical data and sended a message to notice certain users

Constructed a search engine   Sept. 2015 – Jan. 2016

- Led a team of 4 people and implemented text search and naive image search
- Wrote a multithreaded web-crawler using Python and processed text using Lucene
- Provided a user-friendly interface with service of Google Voice input

👥 LEARNING EXPERIENCE

On winter vacation, I have read 9 chapters of `Pattern Recognition and Machine Learning` (Bishop) and 15 chapters of `Deep Learning` (Bengio) and I will finish reading the entire books in this month. Along with reading these books, I have been listening to Zhihua Zhang's open course to strengthen my understanding of the detailed theoretical derivation.

Additionally, I audited multiple courses beyond requirements in the program of IEEE Honor Class.

`Brain-like Intelligence` (Lei Xu, European Academy of Sciences)	Sep. 2016 – Dec. 2016
`Deep Learning and Its Applications` (Kai Yu, SJTU)	Sep. 2016 – Dec. 2016
`SIGKDD China Chapter Forums` (Qiang Yang, Zhihua Zhou, Kai Yu etc.)	Dec. 17, 2016
`Approximation Algorithms` (Xiaohui Bei, NTU)	Jul. 2016
`Machine Learning` (Yang Yang, SJTU)	Mar. 2016 – Jul. 2016
`Automata Theory` (John Hopcroft, Turing Award Winner)	Dec. 2015 – Jan. 2016

⚙ Skills

- Programming languages: C++, Python, Torch, Keras
- Additional skills: Java, PHP, SQL, HTML, LaTeX

♡ Honors and Awards

AmCham Shanghai Centennial Scholarship	2016
The GuangHua Educational Scholarship	2015