Jingqi Chen

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Skills

Rich knowledge and experience as a contestant of ACM-ICPC.

Familiar with machine learning, in the field of computer vision.

Familiar with distributed system, in the field of sharded NoSQL database.

Skilled at C++, Go, familiar with C, C#, Java, Python, Ruby, Bash, Git, Linux and LaTeX.

Education

B.Eng., Computer Science, Xi'an JiaoTong University, 2014 Sep - 2018 Jul.

Honor

Lu Shidi Scholarship (rank: 1/12), Xi'an JiaoTong University, 2017 Sep.

Gold Medal, ACM-ICPC China Final, 2016 Dec.

Siyuan Scholarship (rank: 10/80), Xi'an JiaoTong University, 2015 Sep.

Bronze Medal, ACM-ICPC Xi'an Regional, 2014 Oct.

First Prize, National Olympiad in Informatics in Provinces, Jiangsu Province, 2012 Oct.

Experience

Engineer of **Alibaba Cloud**, table store, 2018 Jul – 2019 Jun.

1. Refactor the module enabling consumption log of TableStore, and optimize performance by implementing a cache. Discuss API semantics, migrate tests, write documentation. It manages 3x throughput, 1/100 latency and resolves the high network usage issue caused by remote read of the filesystem used as shared storage.
2. Participate in building a new CI/CD framework for TableStore, which powers complex environment management and intelligent decomposition and parallelization of tests. The framework includes triggers of code repositories, scheduler managing several clusters, report collector, resource manager and etc.
3. Implement YCSB binding of TableStore, which enables users to compare the performance of TableStore with other NoSQL databases'.
4. Implement small features, fix bugs, and refine public documentation.

SDE Intern of **Hulu**, video optimization, 2017 Nov – 2017 Dec.

1. Refactor the service for providing specialized streaming configuration when start playing videos, which uses Redis as cache and MySQL as database.
2. Optimize performance to serve 10x QPS on Super Bowl day. Add monitoring metrics. Integrate it to CI/CD system.
3. Write unit testing code with Jasmine, do stress testing with Locust.

SWE Intern of **Microsoft**, bing multimedia, 2017 Jul – 2017 Sep.

1. Optimize the inference speed of a photo labeling module which runs on thousands of machines, 1.8x faster and practically no loss in accuracy.
2. Implement the algorithm introduced in Dynamic Network Surgery for Efficient DNNs under caffe. Use sparse matrix operation API of MKL. Merge BatchNorm layer and Scale layer into Convolution layer.
3. Benchmark forward/backward time of CNNs under several frameworks, including caffe, cntk, nntk, etc.

Research Intern of **YITU**, research, 2017 Jan – 2017 Mar.

1. Develop the module for recognizing car plates and integrate it to a intelligent traffic monitoring system.
2. Train CNN model by Caffe. Preprocess data using C++, Bash with OpenCV, OpenMP, Boost.
3. Achieve high accuracy with image enhancing and data augmenting.

Ex-curricular Activities

Teaching *Introduction to ACM-ICPC*, Xi'an JiaoTong University, 2016 Jul.

Student Leader, ACM-ICPC Team of Xi'an JiaoTong University, 2015 Nov - 2016 Dec.