

# Jingqi Chen

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## Skills

Rich knowledge and experience in **algorithms** and **data structures**.

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

Fluent english, scored **611** points in **CET-4**, scored **547** points in **CET-6**.

Familiar with **machine learning** and **computer vision**.

## Experience

Engineering Intern of **Microsoft (Beijing & Suzhou)**, bing multimedia, 2017 Jul – 2017 Sep.

1. Benchmark predict speed of AlexNet, GoogLeNet, ResNet under several deep learning frameworks, including **caffe**, **cntk**, **nntk**, etc.
2. Implement network pruning algorithm introduced in Dynamic Network Surgery for Efficient DNNs under **caffe**. Modify caffe source code to support sparse matrix operations, which results 1.5x speed up on CPU platform. Read papers about neural network acceleration.
3. Merge BatchNorm layer and Scale layer into Convolution layer, which results 1.2x speed up; with Python.
4. Implement a caffe prototxt parser in C++, and make it open source on GitHub.

Research Intern of **Yitu Tech (Shanghai)**, research, 2017 Jan – 2017 Mar.

1. Participate in transferring a project of **character recognition** from CPU to **GPU**, in charge of designing and training **CNN** networks by using **caffe**.
2. Manipulate large scale of data by parallel **C++**, **Bash** programming, by using **OpenCV**, **OpenMP**, **BOOST**, and several command line tools.
3. Fix bugs of fundamental libraries.

## Awards & Honor

**Gold Medal**, ACM-ICPC (Programming Contest) China Final, 2016 Dec.

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

**Gold Medal**, 3rd Place, ACM-ICPC (Programming Contest) Shaanxi Provincial, 2015 May.

**Bronze Medal**, ACM-ICPC (Programming Contest) Xi'an Regional, 2014 Oct.

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

## Education

**B.S., Computer Science**, Xi'an JiaoTong University, 2014 Sep - .

## Ex-curricular Activities

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

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