

# Jingqi Chen

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## Skills

Rich knowledge and experience in algorithms and data structures.

Familiar with machine learning and computer vision.

Skilled at C++, familiar with C, C#, Java, Python, Ruby, Bash, Git, Linux and  $\text{\LaTeX}$ .

Skilled at Node.js, familiar with RESTful.

## Experience

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

1. Refactor and refine a **Node.js** service; which interacts with Redis, MySQL, Jenkins and Graphite.
2. Write 700+ lines of unit test code by using Jasmine; do stress test by using Locust.
3. Implement a tiny MySQL helper in Ruby for high performance inserting and logging; src: [GitHub](#).

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

1. Benchmark forward/backward time of CNNs under several frameworks, including caffe, cntk, nntk, etc.
2. Implement the algorithm introduced in [Dynamic Network Surgery for Efficient DNNs](#) under caffe, and optimize it by sparse matrix operations, which results 1.5x speed up.
3. Merge BatchNorm layer and Scale layer into Convolution layer, which results 1.2x speed up.
4. Implement a caffe prototxt parser in C++; src: [GitHub](#).

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

1. Transfer a character recognition module to GPU platform by using CNN, under caffe.
2. Manipulate large scale of data by parallel **C++**, **Bash** programming, by using OpenCV, OpenMP, BOOST, and command line tools.
3. Fix bugs of fundamental libraries.

## Awards & Honor

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

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

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

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 - 2018 Jun.

## 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.