Wen-tao Zhang (Toby)

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EDUCATION

Peking University

Sep. 2013 - Present

B.S. in Computer Science

- Overall GPA: 3.54/4.0 Major GPA: 3.62/4.0

National Engineering Laboratory for Video Technology (NELVT), Video Coding Technology Lab

Advisor: Siwei Ma

EXPERIENCE

Students' Association of College of EECS, Peking Univ.

Sept. 2013 - June 2014

Member of Acadamic Dept.

Organized several lectures about overseas studying and postgraduate recommendation

Video Coding Technology Lab, Peking Univ.

Apr. 2015 - Present

Intern

Did research on High Efficiency Video Coding

Zhang Research Group, Computer Systems Lab, Cornell Univ.

July 2016 - Sept. 2016

Intern

Did research project about Binarized Neural Network (BNN) Acceleration

AWARDS, GRANTS & HONORS

International Olympiad in Informatics (IOI) 2013 China Team Selection Competition Ninth Place

The ACM-ICPC Asia Regional Contest Chengdu Site 2013 Silver Medal (Twenty-third Place)

Merit Student of Peking University, 2013 - 2014 Acadamic Year

Tung OOCL Scholarship, 2013 - 2014 Acadamic Year

The ACM-ICPC Asia Regional Contest Mudanjiang Site 2014 Gold Medal (Tenth Place)

PROJECTS

Image Segmentation

Jun. 2015

A naive implementation based on Graph-Cut algorithm

https://github.com/nsknojj/graph-cut-based-on-maxflow

Log File System

Jan. 2016

Designed a client caching mechanism for Hadoop Distributed File System (HDFS)

https://github.com/nsknojj/LogFileSystem

Pedestrian and Car Detection on Dataset PKUSVD

Nov. 2015 - Dec. 2015

Neural network was based on Fast-RCNN, Proposal algorithm: ACF & EdgeBox

https://github.com/nsknojj/fast-rcnn-final

Birdway

Oct. 2015 - Dec. 2015

A collaborative editing plugin for Atom

https://github.com/yangzhixuan/birdway https://github.com/nsknojj/Birdway-Server

Video coding based on object features

June 2015 - May 2016

Built an application that can search for a similar frame in a video using extracted features

Big File Upload plugin on Jupyter Notebook

April 2016 - June 2016

Add a plugin to upload big file on Jupyter Notebook

https://github.com/nsknojj/notebook/tree/upload

Binarized Neural Network (BNN) acceleration project

July 2016 - Sept. 2016

Test the baseline of BNN, and implemented BNN with Halide, a language for parallelization and optimization

https://github.com/nsknojj/bnn-halide (private)

STRENGTHS

Computer Languages: C++, Python, JAVA, Shell Script

Hobbies and Interests: table tennis, billiards, music, movie

PUBLICATIONS

A PHOTO TAKEN AT BROOKLYN BRIDGE

