Hao Du

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github.com/mapleam

EDUCATION

UESTC   *Sep 2015 - Jun 2019*
Software Engineering International Elite Class   *Chengdu*
- Major courses: Computer Composition Principle, Data Structure, Linear Algebra, Operating System, Calculus
- Grade-Point Average: 85.55/100
- Rank: 37/745

PROFESSIONAL EXPERIENCE

Microsoft Research Asia   *Jan 2019 - Present*
Research Intern in Multi-Media Computing
- We studied and analysed the Siamese series model (e.g. SiamFC, SiamRPN)
- We accomplished implemention of ATOM and improved it for ICCV(Although not finished)
- We achieved the-state-of-art performance in VOT2018, OxUvA and LaSOT

Momenta Technology   *Oct 2018 - Jan 2019*
Research Intern , Training Platform
- Doing Research in model compression and optimized pipeline for accelerating training and inference recorded in Github.
- Have Implemented Auto-Augment, Drop-Block, NISP in Momenta's framework based on caffe without loss of accuracy.

SenseTime Technology   *Jan 2018 - Jul 2018*
Apprentice Researcher , in Algorithm Platform and High Performance Computing   *Shenzhen*
- During this period, I have gained knowledge in a deep-learning framework(Caffe) source code and distributed training pipeline.
- Reproduce 'DGC' achieve a speedup of 30% of parallel-training sensenet(based on caffe) framework.
- Using the characteristics of nccl2, I designed a heuristic method for communicating.
- I accomplished demo online distillation in Sensenet based on caffe.

University of Electronic Science and Technology of China Cyber Security Lab   *Feb 2017 - Jul 2017*
Researcher   *Chengdu*
Completed the project "Using Software-Based Radio and Convolutional Neural Networks to Construct GNSS Protection System"
- We took phase/energy/imaginary variables as 3 channels in Resnet-18 for training.
- Then we uploaded our model to the server, and we programmed an app for it.
- Finally we applied for 5 patents(2 have been applied)

COMPETETION EXPERIENCE

ACM-ICPC training team   *Feb 2016 - Nov 2017*
As a team member,
- My rating remains fluctuating around 2000 points in codeforces.com
- We won the Gold Medal in 2017's Group Programming Ladder Tournament(CCCC-GPLT) in Hangzhou
- I won the silver medal in 2017's Collegiate Computer Systems&Programming Contest (CCSP) in Fujian after 12 hours' coding
- Wrong allocating time caused us having no time for the violent simple problem and we only got bronze medal

HONORS & AWARDS

- 1st place in the 10th National College Student Information Security Competition   *2017.7*
- 2nd place in Group Programming Ladder Tournament (CCCC-GPLT)   *2017.4*
- 2017's Outstanding Undergraduate of China Computer Federation   *2017.11*
- Gold Medal in the Contest of Lan Qiao Cup   *2017.4*
- 3rd place in Bronze Medal in ACM-ICPC Xi'an   *2017.10*
- Silver Medal in CCF Collegiate Computer Systems&Programming Contest(CCSP)   *2017.10*
- Gold Medal in Challenge Cup   *2017.4*
- Bronze Medal in CCF Collegiate Computer Systems&Programming Contest(CCSP)   *2016.11*
- Bronze Medal in the 9th National College Student Information Security Competition   *2016.8*
- Bronze Medal in ACM-CCPC Hefei   *2016.10*