Chon Lam, LAO

MACAU S.A.R.
Master Student Research in Networked Systems
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EDUCATION

Tsinghua University, Beijing
Master of Computer Science, 2018 - now (second year, purchasing)

National Cheng Kung University, Taiwan
Bachelor of Computer Science & Information Engineering, 2015 - 2018
(GPA 3.91/4.3 with Top 10% ranking, one-year earlier graduation)

SKILLS & INTEREST

Software-Defined Network - - - Ryu, OpenFlow, In-network Computation
Distributed Training - - - - - - - - - - - - - - - - - - Pytorch, Tensorflow, BytePS
Ethernet Programming -RDMA, DMA
Programming Language - - - - P4, C, C++, Python, Java, NodeJS, Javascript

EXPERIENCE

Visiting Scholar,
University of Wisconsin–Madison (UWM);
2019 - 2020

To work on the independent study of accelerating the distributed training process by P4 programmable switch under the supervision of Professor Aditya Akella. Focus on the hardware-software co-design protocol in the multi-tenant scenario, offloading computation into the network, reduce traffic and speed up the training process.

Research Assistant,
The University of Hong Kong (HKU);
2017 - 2017

Three months summer Internship in HKU, implementing the Machine Learning model (CNN) to improve the accuracy of variant calling software, doing experiments and benchmarking.

Teaching Assistant,
Tsinghua University (THU);
National Cheng Kung University (NCKU);
2017 - 2019

Being the teaching assistant and lecturer of the course "Advanced Competitive Programming" in NCKU, familiar with variety of Data Structure and Algorithm.
Also as the teaching assistant of "Security Technologies in Cyberspace" in THU in the first year of Master program.

Netowrk Administrator,
National Cheng Kung University (NCKU);
2016 - 2018

Applying the techniques in CCNA to organize and manage the network environment and official website of the Department of MLSB at NCKU.

Project Executor,
Ministry of Science and Technology of Taiwan;
2017 - 2017

Received government funding and held the undergraduate student research project in "Detecting DDoS Attack in Software-Defined Network through Convolutional Neural Network" in Taiwan.

REWARDS & QUALIFICATIONS

- Algorithm
- Top 6% in 2017 Taiwan Collegiate Programming Examination
- Bronze Prize of 2017 ACM-ICPC Asia Taiwan Regional Contest
- Silver Reward of 2014 Macao Olympiad in Informatics (MOI)
- Second Prize of 2013 National Olympiad in Informatics in Province (NOIP)
- Silver Reward of 2013 Macao Olympiad in Informatics (MOI)
- Second Prize of 2012 National Olympiad in Informatics in Province (NOIP)
- Silver Reward of 2012 Macao Olympiad in Informatics (MOI)

- Networking
- Gold Reward of 11 TH HK / MO Youth Network Skills Competition CISCO
- Silver Reward of 10 TH HK / MO Youth Network Skills Competition CISCO
- Cisco Certified Network Associate (CCNA)

- Scholarships
- Tsinghua University Scholarship (2018 - 2020)
- Macau Goverment Scholarship for Master Student (2018 - 2020)
- Taiwan Goverment Scholarship for Oversea Student (2015 - 2018)
- Macau Goverment Scholarship (2015 - 2018)

CONFERENCES & PUBLICATIONS

- "ATP: In-network Aggregation for Multi-tenant Learning",
(as the first author, one-shot revisioning on NSDI'21 Spring)

- ChonLam Lao, K.-Y. Liow, and M.-H. Tsai "Detecting DDoS Attack in Software-Defined Network (SDN) through Convolutional Neural Network" 22th Mobile Computing Conference, Kaosiung, August 2017 (Chinese Publication)

RELATED LINKS

Github - https://github.com/laochanlam
Lam's Tech Blog - http://blog.laochanlam.com/