

RENQIAN LUO

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🎓 EDUCATION

University of Science and Technology of China (USTC), Hefei, China 2016 – Present

Master student in Computer Science and Technology

University of Science and Technology of China (USTC), Hefei, China 2012 – 2016

B.S. in Computer Science and Technology

👤 EXPERIENCE

Microsoft Research Asia (MSRA) Beijing, China 2015.7 – 2016.5

Research Intern Group:WNG Mentor: Kun Tan

Brief introduction: I mainly worked on data center network, using reconfigurable hardware to implement and accelerate functions deployed in data center. Besides, I worked with a team to develop new features for Microsoft Bing Dictionary on UWP.

- Work on ClickNP project
- Develop new features for Bing Dictionary

ClickNP Project 2015.7 – 2016.1

Team Project, with Kun Tan, Bojie Li, Layong Luo, Yanqing Peng and so on

Brief introduction: ClickNP is a programming model/language for modularized packet processing on FPGA-accelerated servers. We used it to implement and accelerate network functions in data center. And we published it in ACM SIGCOMM 2016.

- ClickNP: Highly Flexible and High-performance Network Processing with Reconfigurable Hardware
- I implemented the original version of packet generator under ClickNP.
- I implemented a firewall under ClickNP.

High Performance RDMA 2016.2 – 2016.5

Team Project, worked with Yishuai Li

We implemented the RDMA protocol on FPGA using ClickNP

- I mainly designed the architecture and implemented most of its parts.

Bing Dictionary 2015.9 – 2016.1

Team Project, with Chongyang Bai, Liyuan Liu, Wei Zhang

We developed the module of reciting words and added it into UWP version Bing Dictionary.

- UWP Bing Dictionary

Spam Classifier 2015.4 – 2015.5

Individual Project

A simple spam classifier using least square, naive bayes, and svm.

Kejia Robot 2014.10 – 2015.1

Team Project, worked in USTC Multi-Agent Systems Lab<http://ai.ustc.edu.cn/> with Ye Li, Yuyang Sang, Yingfeng Liu and so on

We made a shopping guide robot for a big shopping mall, based on USTC Kejia robot.

- I mainly worked on the navigation part and backend software development.

C1 Compiler 2014.9 – 2015.1

Individual Project

A compiler for C1 language, a subset of C language. I developed the front, the backend and debug function of the compiler.

Robogame 2014.6 – 2014.10

Team Project, with Ye Li and so on

We built a household robot serving for the disabled and the elderly. We took part in USTC Robogame, and got the 6th in the final.

Face Detection and Recognition 2014.7 – 2014.9

Team Project, with Xiaokai Chu and Lianjie Shi

Using OpenCV in ROS to implement face detection and recognition.

UAV 2014.9 – 2015.1

Team Project, with Xiaokai Chu, Xiaolu Li, Lianjie Shi

Automatic controlled four-motor hummingbird UAV based on transplanted real-time Operating System uC-OS.

♥ RESEARCH INTERESTS

- Algorithm
- Artificial Intelligence & Machine Learning
- Systems

⚙ IT SKILLS

- C/C++ Python Java C#
- Matlab
- Parallel Computing: OpenCL CUDA openmp
- UWP

♥ HONORS AND AWARDS

2015 USTC Outstanding Student Scholarship – Bronze	2015.9
2014 USTC Outstanding Student Scholarship – Bronze	2014.9
2013 USTC Outstanding Student Scholarship – Bronze	2013.9
2012 USTC Outstanding Student Scholarship – Bronze	2012.9
2 nd Prize in 2012 “FLTRP CUP” English Public Speaking Contest	2012.9

❏ MISCELLANEOUS

- GitHub: <https://github.com/lrqrichard>
- Languages: English - Fluent, Mandarin - Native speaker