Yufeng Chen

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EDUCATION

University of Science and Technology of China (USTC)　　　　　　　　　09/2017- 07/2021(Expected)

Bachelor in Electronic Information Engineering　　　　　　　　　　　　　　　　　　　　　　Hefei

- Overall GPA: 3.87/4.3 (90.03/100) Rank: 17/308
- Talent Program in Information Science and Technology
- Core Courses:　EE: Computer Networks (94/100), Principle of Microcomputer and Embedded System (97/100)

CS & Math: Data Structure and Algorithm (97/100), Probability and Statistics (94/100), Python and Deep learning Basics (A+)

PROJECT EXPERIENCE

Multi-domain Testbed Experiment Based on DeepRMSA　　　　　　　　　　　　06/2020- 11/2020

Summer intern research (result & code)　　　　　　　　　　　　　　University of California, Davis

Next Generation Network and System Group (Supervisor: Prof. S.J. Ben Yoo)

- Leveraged deep reinforcement learning (DRL) to solve routing, modulation and spectrum assignment (RMSA) in elastic optical networks in a hierarchical scheme to pursue cost-effective inter-domain networking designs
- Built an application with DRL agents on ONOS platform, which provides the control plane for a software-defined network
- Compared with k-shortest path algorithm in multi-domain situation, my design obtains less blocking probabilities

Design and Implementation of an Intelligent Air Hockey Robot　　　　　　　　　03/2019- 06/2019

Course work (demo & code)　　　　　　　　　　　　　　　　　　　　　　　　　　　　USTC

Electronic Design Practice (Supervisor: Prof. Wei Lu)

- Designed an intelligent air hockey robot that is able to combat with a human player in two dimensions
- Based on target's speed, direction and location, the robot could automatically choose different strategies, like attack or defense
- Implemented with extensive microprocessor programming using Python and basic computer vision technologies provided by OpenCV, for example, dilation and contour finding

Remote Direct Memory Access (RDMA) Optimization on MongoDB　　　　　　　06/2018- 11/2018

Undergraduate research & team competition (doc)　　　　　　　　　　　　　　　　　　　USTC

Advanced Computer System Architecture Lab (Supervisor: Prof. Hong An)

- Adopted RDMA to replace TCP/IP communication module in MongoDB to reduce latency among cluster servers and clients
- Compared with traditional TCP/IP design, our final RDMA-based system obtains 3.58X/6.16X at peak Put/Get operations speed-up on ordinary data size
- Won the first place in the Inaugural 2018 The Sixth Student RDMA Programming Competition organized by HPC AI

AWARDS

- Outstanding Student Scholarship　　　　　　　　　　　　　　　　　　　　　　　　　2019
- Second prize of Electronic Design Contest in School of Information Science and Technology　　　2019
- First Place in the Inaugural 2018 The Sixth Student RDMA Programming Competition　　　　2018
- Outstanding Student Scholarship　　　　　　　　　　　　　　　　　　　　　　　　　2018
- Outstanding Freshman Scholarship　　　　　　　　　　　　　　　　　　　　　　　　2018

SKILLS

- **Programming languages:** C&C++, Python, Java, SQL, VHDL, Shell, Assembly Languages
- **Software:** MATLAB, Wolfram Mathematica Git, Multisim, Quartus, Altium Designer, keil μ5
- **OS:** Linux