

Yufeng Chen

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443 Huangshan Rd, Hefei, Anhui, 230027, P.R. China

EDUCATION

University of Science and Technology of China	09/2017- 07/2021(expected)
Bachelor in Electronic Information Engineering	Hefei
● Overall GPA: 3.87/4.3 (90.03/100) Rank: 17/308	
● Core Courses:	
EE: Principle of Microcomputer and Embedded System (97/100), Computer Networks (94/100)	
CS & Math: Data Structure and Algorithm (97/100), Probability and Statistics (94/100)	

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 (2 domains, each has 14 nodes)	
● Built an application with DRL agents on ONOS platform (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.	
Remote Direct Memory Access (RDMA) Optimization on MongoDB	06/2018- 11/2018
Undergraduate research & team competition (doc)	USTC
Advanced Computer System Architecture Lab	
● Adopted RDMA to replace TCP/IP communication module in MongoDB (a NoSQL database) to reduce latency among cluster servers and clients	
● Compared with traditional TCP/IP design, our final RDMA-based version 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	
Design and Implementation of an Intelligent Air Hockey Robot	03/2019- 06/2019
Course work (demo & code)	USTC
● Designed an intelligent air hockey robot that is able to combat in two dimensions and choose attack or defense in the game with a human player	
● Implemented with extensive microprocessor programming using Python and basic computer vision technologies provided by OpenCV, for example, dilation and contour finding	

AWARDS

● Outstanding Student Scholarship Grade 2	2019
● Electronic Design Contest in School of Information Grade 2	2019
● First Place in the Inaugural 2018 The sixth Student RDMA Programming Competition	2018
● Outstanding Student Scholarship Grade 1	2018
● Outstanding Freshman Scholarship Grade 3	2018

SKILLS

- Programming languages: C&C++, Python, Java
- Software: MATLAB, Git, Quartus, Altium Designer, Keil
- OS: Linux