Yuyang Chen

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EDUCATION

University of California-Irvine (UCI) *Sep. 2018 - present*
Master of Science in Networked System GPA: 4/4
Ongoing Courses: Advanced Networks, Advanced System Software, Networking Lab, Machine Learning, Computer Networks, Intro to AI

Beijing University of Posts and Telecommunications (BUPT) *Sep. 2014 - July 2018*
Bachelor of Communication Engineering, GPA: 3.57/4 Major GPA: 3.78/4
Major Course: C++ Programming, Data Structures, Software Defined Network, Database Technology and Application , Principle of Communication

SKILLS

- Programming Languages: C/C++, Python, Java, JavaScript, HTML, CSS
- Tools: IntelliJ IDEA, PyCharm, WebStorm, Jupyter, Git, Maven, PostMan, Xshell, Docker, AWS, Spring boot, Wireshark, VS Code, Matlab

INTERNSHIP EXPERIENCE

Software Engineer Internship *Sep. 2017 - Feb. 2018*
China Telecom Beijing Research Institute

- Followed the instruction of my supervisor to implement open source modules of OpenDaylight **SDN (Software Defined Network) controller** like toaster, dsbenchmark and ncmount and configure controller server using Xshell
- Cooperated with supervisor to implement project, using **MAVEN** for project construction and **OSGI** for **MD-SAL** (Model Driven Service Abstract Layer) design
- Used Yang modeling languages to construct the datastore, and utilized **RPC** protocol and multithread programming to implement OpenDaylight controller's datastore operation and Netconf protocol usage
- Utilized **Docker**, Open vSwitch, Wireshark to implement and analyze module implementation

Electronic Engineering Department Research Internship *Oct. 2016 - Oct. 2017*
Indoor autonomously mapping and navigation robot

- Used Arduino and laser radar, IMU to implement sensor system
- Learnt and utilized SLAM algorithms: gmapping, hector, cartographer based on **Linux** and ROS system.
- Implemented mapping and navigation functions on robot platform
- Result link: https://www.youtube.com/watch?v=PjCwRK2i2yo&t=320s

COMPETITION EXPERIENCE

OpenFlow and VXLAN Based Data Center Network Model Design *June – Aug.. 2017*

- Studied and mastered basic link and network layer protocol and SDN general concepts
- Designed OpenFlow and VXLAN protocol based data center network model
- Utilized Mininet, Open vSwitch, Ryu, Wireshark to simulate and analyze model implementation

RESEARCH EXPERIENCE

An Indirect-Reciprocity Game Theoretic Framework for Device-to-Device Multicast *Mar. 2017 - July 2018*
2019 IEEE International Conference on Communications (ICC): Under review

- Learned from 5G wireless communication, D2D summarized papers and IR model application papers and found the problems needed to be solved in D2D communication specific multicast application scenario then report to my supervisor about model construction
- Designed model and conducted theoretical projection and verification , then simulated and evaluated my model with Matlab. My IR model achieve about 20% higher performance in throughput and service coverage than other model