CHEN, QINGYU

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EDUCATION

Carnegie Mellon University, Information Networking Institute	**Pittsburgh, PA**
M.S. in Information Technology, Information Security	09/2018 - 06/2020
Beijing University of Posts and Telecommunications (BUPT)	**Beijing, China**
B.Eng. in Network Engineering, overall GPA: 3.3, Junior GPA: 3.5	09/2014 - 06/2018

ACADEMIC HIGHLIGHT

Headr: Static Blog Provider Based on Microservice Architecture | *Graduation Project*　　　12/2017 - 05/2018
- Implemented microservices with Go-kit, invented unit/integration testing methods against Go-kit microservices
- Deployed microservices Docker images to Kubernetes cloud on GCP, with Wercker automation pipeline
- Built frontend Single Page Application with Vue.js, integrated Auth0 for user authorization and authentication

State Key Laboratory of Networking and Switching Technology | *Research Assistant*　　　12/2016 - 08/2017
- Developed a SDN prototype that supports random hierarchical VRF via Open vSwitch and Ryu SDN framework
- Architected a real network using 13 soft switches, deployed the prototype and tested forward performance and security
- Presented at the 4th ACM CCS Moving Target Defense (MTD) Workshop in Dallas as the second author

INTERNSHIP

VMware, Inc. (NASDAQ: VMW) | *Quality Engineer in VMware EUC Department*　　　09/2017 - 11/2017
- Maintained the daily automation test environment and scripts that are compatible to all common browsers
- Upgraded several functions of the Selenium based test tool for the web client of VMware Horizon product
- Fixed issues of existing automation test system VAS-Apollo, added multiple new functions to the system

Lanzhong Tech (Beijing) Co., Ltd. | *Full-Stack Developer*　　　03/2017 - 09/2017
- Led to maintain the Cloudjudge system, which is built atop container and Celery to run judging with high concurrency
- Involved in designing architecture of Lintcode, designed APIs and callbacks between Lintcode and Cloudjudge
- Developed and upgraded several new frontend and backend functions of Ninechapter, an online CS course provider

ACTIVITY

Open Source | *Independent Contributor*　　　01/2018 - 05/2018
- Co-translator of <Designing Data Intensive Application> by Martin Kleppmann. https://github.com/Vonng/ddia

AIESEC, BUPT | *Vice President*　　　03/2015 - 06/2016
- Chaired AIESEC activities at BUPT, including fund raising and business development affairs
- Volunteered as an AIESECer to teach English at primary schools in Morogoro, Tanzania for two months in 2015

HONORS

Publications
- Wang, Y., Chen, Q., Yi, J., & Guo, J. (2017, October). U-tri: unlinkability through random identifier for sdn network. In Proceedings of the 2017 Workshop on Moving Target Defense (pp. 3-15). ACM.
- Wang, Y., Yi, J., Guo, J., Qiao, Y., Qi, M., & Chen, Q. (2018). A Semistructured Random Identifier Protocol for Anonymous Communication in SDN Network. Security and Communication Networks, 2018.

Awards
- Annual Scholarship at BUPT for three consecutive years, 2015-2017
- Best Data Engineering Award in Big Data Contest by Alibaba University Technology Association, 2016

SKILLS

- Languages: Python, Go, C/ C++, JavaScript, Java, Assembly
- Tools and Platforms: git, Docker, Linux, AWS, GCP, Kubernetes