CHEN, QINGYU

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EDUCATION

Carnegie Mellon University, Information Networking Institute   **Pittsburgh, PA**

M.S. in Information Technology, Information Security, GPA: N/A   Sep 2018 – Jun 2020

Beijing University of Posts and Telecommunications (BUPT)   **Beijing, China**

B.Eng. in Network Engineering, GPA: 3.3   Sep 2014 – Jun 2018

TECHNICAL SKILLS

Programming Languages	Proficient: Python, C, Familiar: Go, C++, Java, JavaScript, x86 Assembly
Tools and Platforms	git, Docker, Linux, AWS, Google Cloud Platform, Kubernetes

PROFESSIONAL EXPERIENCE

VMware, Inc. (NASDAQ: VMW) | *Quality Engineer Intern*   Sep 2017 – Jan 2018

- Maintained the daily automation test environment and scripts that are compatible to all common browsers
- Upgraded several functions of the Jython written Selenium based test tool for the web client of VMware Horizon
- Fixed issues of existing automation test system VAS-Apollo, added multiple new features to the system

Lanzhong Tech (Beijing) Co., Ltd. | *Full-Stack Web Developer Intern (Online)*   Mar 2017 – Jan 2018

- Led to maintain the Cloudjudge system, which is an auto grading system built atop container runtime runC
- Involved in designing architecture of LintCode, designed APIs and callbacks between LintCode and Cloudjudge
- Developed several new features of Ninechapter, an online CS course website built with Django and React.js

National Key Laboratory of Networking and Switching Technology | *Research Assistant*   Dec 2016 – Aug 2017

- Developed an 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 performance and security
- Presented at the 4th ACM CCS Moving Target Defense (MTD) Workshop in Dallas as the second author

SELECTED PROJECTS

Headr: Static Blog Provider Based on Microservice Architecture | *Graduation Project*   Dec 2017 – May 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

MyDocker: Learning Docker by Making One | *Independent Developer*   Oct 2017 – Dec 2017

- Developed in Go a prototype-level container runtime engine utilizing cgroups, namespaces and overlay2
- Implemented basic container managements including run, stop, remove, exec, commit, logs and so on
- Supported inter-container, container-Internet network through Linux virtual network interfaces

BLEXT: An Online All-in-One Blogging Website | *Independent Developer*   Oct 2016 – Dec 2016

- Built an online blogging website using Python web framework Flask and template engine Jinja2
- Created a desktop Markdown editor with Electron that supports publishing to BLEXT through RESTful APIs

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.

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

ACTIVITY

AIESEC, BUPT | *Vice President*   Mar 2015 – Jun 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