

396 Engineering VI, University of California, Los Angeles, CA 90095-1596

□ (+1)310 307 9986 | ☑ zhiyi.zhang@ucla.edu | 🌴 www.zhiyi-zhang.com | ☑ zhiyi-zhang | 🛅 zhiyi-zhang

Summary _

Current UCLA PhD candidate in computer science at UCLA. Experience specializing in Network Security, Internet of Things, and Informationcentric Network. Skills in network protocol designing and security system building. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools.

Education

UCLA Los Angeles, CA, U.S.A

Ph.D. IN COMPUTER SCIENCE

- Supervised by Professor Lixia Zhang in the Internet Research Laboratory.
- Major fields: Network Security, Internet of Things, Information-centric Network
- TA UCLA Master Course: Internet Architecture and Protocols
- TA UCLA Undergraduate Course: Software Construction

Nankai Univ. Tianjin, China

• Earned GPA of 3.8/4.0

BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING Sep. 2012 - Jun. 2016

Experience _____

Internet Research Laboratory, UCLA

Los Angeles, CA, U.S.A

Sep. 2016 - Exp. Jun. 2021

DOCTORAL RESEARCHER

- Sep. 2016 PRESENT • Contributing to the effort of Named Data Networking (NDN) of **Internet of Things (IoT)**.
- Designing and implementing Blockchain-based distributed ledger system for Real-world Solar System.
- Designed and implemented **DDoS defense** system over NDN.
- Designed and implemented automatic **certificate management** system over NDN.
- Designed and implemented access control scheme with RSA and Attribute-based Encryption.

AIS team, Alibaba Group

Bellevue, WA, U.S.A

RESEARCH&DEVELOPMENT INTERNSHIP

- Jun. 2017 Sep. 2017 Building high-performance user-mode network stack by adjusting QUIC to work with kernel bypass (DPDK)
- Evaluation of OUIC+DPDK's performance compared with TCP+TLS+HTTP/2 and DPDK+TCP+TLS+HTTP/2
- Explored new congestion control protocol (BBR) in data center network scenario

Data and Knowledge Engineering Laboratory, Nankai Univ.

Tianjin, China

Undergraduate Researcher

Jul. 2014 - May. 2015

- Implemented linking system matching plaintext word to Wikipedia pages in Java.
- Developed entity disambiguation system in Java.

Honors & Awards _____

2018	ACM ICN 2018 Best Poster Award, Title: NDNoT: A Framework for Named Data Network of Things	Boston, U.S.A.
2016	Outstanding Graduate Student Award, 4 out of 99 in Software Engineering Department, Nankai University	Tianjin, China
2015	The National Scholarship of China, 0.2% among undergraduates nationwide, The Chinese Government	Tianjin, China
2015	CSST Scholarship, The China Scholarship Council and UCLA	Los Angeles, U.S.A
2015	Honorable Mention Award, Mathematical Contest in Modeling	Tianjin, China

Skills / Strengths __

Programming languages C; C++; Python; Java; MatLab

Professional Network Security; Internet of Things; Information-centric Network; Kernel Bypass; QUIC

Tools Git; Shell; LaTeX; Emacs; UML

ZHIYI ZHANG · RÉSUMÉ OCTOBER 11, 2018