

# Cheng Tan

✉ chengtan@nyu.edu | 📍 RM 424, 60 5th Ave, NYC, USA | 🌐 naizhengtan.github.io

## EDUCATION

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New York University Ph.D. Candidate in Computer Science Advisor: Michael Walfish	NYC Sep 2014 – Present
Fudan University M.S. in Software School Advisor: Haibo Chen and Binyu Zang	Shanghai, China Sep 2011 – Jun 2014
Nanjing University B.E. in Software Institute	Nanjing, China Sep 2007 – Jun 2011

## EXPERIENCE

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Microsoft Research Research Intern	Redmond, Washington Jun 2016 – Aug 2016
System Group at NYU Research Assistant	NYC Sep 2015 – Present
Institute of Parallel And Distributed Systems at Shanghai Jiao Tong University Research Assistant and Visiting Student	Shanghai, China Sep 2012 – Jun 2014

## PUBLICATIONS

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- [5] **Cheng Tan**, Ze Jin, Chuanxiong Guo, Tianrong Zhang, Haitao Wu, Karl Deng, Dongming Bi, and Dong Xiang. *NetBouncer: Active Device and Link Failure Localization in Data Center Networks*. The 16th USENIX Symposium on Networked Systems Design and Implementation (**NSDI 2019**).
- [4] **Cheng Tan**, Lingfan Yu, Joshua B. Leners, and Michael Walfish. *The Efficient Server Audit Problem, Deduplicated Re-execution, and the Web*. The 26th ACM Symposium on Operating Systems Principles (**SOSP 2017, Best paper award**).
- [3] Yubin Xia, Yutao Liu, **Cheng Tan**, Mingyang Ma, Haibing Guan, Binyu Zang, and Haibo Chen. *TinMan: Eliminating Confidential Mobile Data Exposure with Security-oriented Offloading*. The 10th European Conference on Computer Systems (**Eurosys 2015**).
- [2] **Cheng Tan**, Haibo Li, Yubin Xia, Binyu Zang, Cheng-Kang Chu, and Tieyan Li. *PreCrime to the Rescue: Defeating Mobile Malware One Step Ahead*. The 5th Asia-Pacific Workshop on Systems (**Apsys 2014**).
- [1] **Cheng Tan**, Yubin Xia and Haibo Chen, and Binyu Zang. *TinyChecker: Transparent Protection Of VMs Against Hypervisor Failures With Nested Virtualization*. The Second International Workshop on Dependability of Clouds, Data Centers and Virtual Machine Technology (**DCDV 2012**).

## HONORS AND AWARDS

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- 2017 SOSP Best Paper
- 2014 MacCrachen Fellowship, NYU
- 2014 Outstanding Graduate Student, Software School, Fudan University
- 2011 Outstanding Graduate Award, Nanjing University

## TEACHING EXPERIENCE

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|---|--------------------------------------|
| Distributed Systems (CSE 535)                       | May 2019                             |
| Guest Speaker                                       | Stony Brook University               |
| Operating Systems (CSCI-UA.0202)                    | 2015 Spring                          |
| Teaching Assistant                                  | NYU                                  |
| Computer System Design and Implementation (X037514) | 2013 Spring                          |
| Teaching Assistant                                  | Shanghai Jiao Tong University, China |

## CONFERENCE AND WORKSHOP TALKS

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| NetBouncer: Active Device and Link Failure Localization in Data Center Networks.                                    | Feb 2019 |
| Conference talk at NSDI   |          |
| The Efficient Server Audit Problem, the Web, the Database, and more.  | May 2018 |
| Invited talk at Shanghai Jiao Tong University, Future Information Technology International Forum for Young Scholars |          |
| The Efficient Server Audit Problem, Deduplicated Re-execution, and the Web.   | Oct 2017 |
| Conference talk at SOSP   |          |
| PreCrime to the Rescue: Defeating Mobile Malware One Step Ahead.  | Jun 2014 |
| Workshop talk at Apsys  |          |