

Resume

Yepeng Yao

Ph. D Candidate (expected Q2 2019), supervised by Prof. Baoxu Liu
Institute of Information Engineering, Chinese Academy of Sciences, China

Personal Details

Date of Birth: September 18, 1987 Citizenship: China

Education

- 09/2015 to Now Full Time Ph. D Candidate in Computer Software and Theory at Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China
- 09/2010 - 06/2013 M.S. in Computer Application Technology at College of Information Engineering, Capital Normal University, Beijing, China. (Recommended)
- 09/2006 - 06/2010 B.S. in Intelligent Science and Technology at College of Information Engineering, Capital Normal University, Beijing, China. (Rank 1 in the class of 28 students)



Working Experience

- 07/2013 - 08/2015 Software Engineer Level II at China R&D Center of International Game Technology PLC (IGT)
- Two years' experience of developing and testing large casino CRM systems in IGT's Electronic Game System department.
- Initiated 'Mobile Host', the first mobile product in IGT's system product line.
- 12/2014 - 12/2015 Founder of Beijing Smart Cloud and Information Security Co., Ltd.
- It was a start-up focusing on improving cloud security by resource monitoring originally, and then pivoted to provide requirement analysis and software customization development service to universities on their education informationization product, especially for PPSUC and BNU.

Research Interests

My research interests include security problems in networks and large-scale networked systems. With behavioral analysis, machine learning and graph embedding methodologies, we can build more secure networked systems by: (i) analyzing the effects of new attack vectors such as Internet routing attacks; and (ii) enabling the network to detect and mitigate obfuscated attacks and insider attacks instead of relying on perimeter-based and signature-based protection.

Skills

- Full stack developer with solid programming software development skills and experience building software developed in C/C++, Java, Python and PHP.
- Understand networking, distributed systems, machine learning and anomaly detection.
- Excellent in problem solving skill and project management skill. A self-motivated, team player.
- Good reading and writing skills in both Chinese/English, CET-6 passed.

Publications

[1] **Yepeng Yao**, Liya Su, Zhigang Lu: DeepGFL: Deep Feature Learning via Graph for Attack Detection on Flow-based Network Traffic[C]// 2018 IEEE MILCOM (Accepted)

[2] Mingyi Chen, **Yepeng Yao**, et al. A Novel Approach for Identifying Lateral Movement Attacks Based on Network Embedding[C]// 2018 ISPA (Accepted)

[3] Liya Su, **Yepeng Yao**, et al. "Hierarchical Clustering Based Network Traffic Data Reduction for Improving Suspicious Flow Detection," 2018 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications, New York, NY, USA, 2018, pp. 744-753.

[4] Xuren Wang, **Yepeng Yao**, et al. Research on Parallel LDA Topic Modeling Method[J]. Transactions of Beijing Institute of Technology, 2013, 33(6): 590-593. (In Chinese)

[5] **Yepeng Yao**, Xuren Wang. A distributed, cross-platform automation testing framework for GUI-driven applications[C]//Computer Science and Network Technology (ICCSNT), 2012 2nd International Conference On. IEEE, 2012: 723-726.

Selected Projects

09/2016 - 10/2017 **Deployment of an Enterprise SSO System (Developer and Project Manager)**
An SSO system (called 3A system, 3A means Account, Authentication, Authorization) of an enterprise platform with 1,000+ active users and 10,000+ servers.

06/2015 - 12/2015 **Online Classroom for Adult School of BNU**
A customization development system based on EduSoho for Beijing Normal University Adult School, which provides training classes for candidate of teacher qualification examination in China.

12/2014 - 05/2015 **Unified Messaging System for PPSUC**
A unified messaging delivery system that provides for a single message receiving endpoint for different types of messages. It serves around 1,000 faculties in PPSUC.

08/2014 - 04/2015 **Passport Scan System of IGT Mobile Host**
A new passport scanning system for IGT Mobile Host by scanning images of passports and extracting information with OCR to register new customers quickly.

12/2013 - 03/2014 **Remote Mobile CUDA Environment**
A type of mobile middleware software framework for remote GPU virtualization by redeveloping and cross-compiling the rCUDA source code released by a Spanish research team into Android library.

Selected Awards

- In Feb. 2018, I received the "Advanced Individual" award of Institute of Information Engineering for the security support for important conference.
- In Apr. 2017, I received a thanks letter from one of the Ministries of China according to my contribution.
- "Model Student of Outstanding Capacity" for the 2017-2018 school year, UCAS
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Supervisor

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