Zhilong Wang

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EDUCATION

Nanjing University   *Sept. 2016 - Present*
M.S. in Department of Computer Science and Technology
Major: Computer Science and Technology
Group: System and Software Security[1]
Advisor: Bing Mao

Pennsylvania State University   *Feb. 2018 - Sept. 2018*
Research Assistant in College of Information Sciences and Technology
Research: ARM Security, Kernel Security

Zhengzhou University   *Sept. 2012 - Jul. 2016*
Earned Bachelor's Degree of Computer Science and Technology

- GPA: 3.6/4.0   Ranking: 1/240

RESEARCH INTERESTS

To detect, analyze and solve security problems with dynamic and static program analysis;

To deploy security strategies by modifying the Kernel and Compiler;

To secure the system and software via hardware's new features (e.g., ARM ETM and AES-NI);

RESEARCH PROJECTS

Cyber Security Lab, Penn State University.   *Research Assistant*   *Feb. 2018 - Sept. 2018*
Hardware-assisted Modular Kernel Protections.

Security Group, Nanjing University.   *Member of Academic Dept.*   *Sept. 2016 - Jun. 2017*
Design dynamic stack guard[1 [2],2] and new program obfuscation techniques[3].

Robotics Lab, Zhengzhou University.   *Group Member*   *Oct. 2013 - Jul. 2014*
Design and develop automatic robot control algorithms.

SKILLS

C Language, Java, Compiler Hacking, Program Analysis, Linux Kernel, Software and System Security.

ACADEMIC ACTIVITIES

DragonStar 2016: "System Security"   *Nanjing*   *18th Jul. 2016 - 22th Jul. 2016*
Lecturer: Zhiqiang Lin

DragonStar 2017: "Program Analysis and Software Security"   *Nanjing   05th Jun. 2017 - 09th Jun. 2017*
Lecturer: Xiangyu Zhang

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[1]Website: http://seclab.nju.edu.cn
[2]Source Code: https://github.com/zhilongwang/PolymorphicCanaries

Public Service

- Commissary in Charge of Studies in Zhengzhou University   *Feb. 2013 - Jun. 2016*
- Class Monitor in Nanjing University   *Sept. 2016 - Present*
- Assistant for Course "Software Security" in Nanjing University   *Sept. 2017 - Feb. 2017*

Awards & Honors

- Outstanding Graduates of Nanjing University, 2019.

- Scholarship of Shenzhen Stock Exchange, 2018.

- Second-class Academic Scholarship of Nanjing University, 2017 &[3] 2018.

- First-Class Academic Scholarship of Nanjing University, 2016.

- The First Prize of Program Testing Competition of Henan Province, 2015.

- First-Class Scholarship of Zhengzhou University, 2013 & 2015 & 2016.

- Certification of Software Capability by China Computer Federation (CCF) : 330 Points (Top 5.11%)

- The First Prize of China Robot Competition and Robot Cup China Open (Beijing), 2014.

- The First Prize of ACM Computer Programming Contest of Zhengzhou University, 2014.

- National Scholarship, 2014.

Publications

1. **Zhilong Wang**, Xuhua Ding, Chengbin Pang, Jian Guo, Jun Zhu and Bing Mao. "To Detect Stack Buffer Overflow With Polymorphic Canaries." In IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), 2018.

2. Jun Zhu, Weiping Zhou, **Zhilong Wang**, Dongliang Mu, and Bing Mao. "DiffGuard: Obscuring Sensitive Information in Canary Based Protections." International Conference on Security and Privacy in Communication Systems (SecureComm). Springer, Cham, 2017.

3. Dongliang Mu, Jia Guo, Wenbiao Ding, **Zhilong Wang**, Bing Mao, and Lei Shi. " ROPOB: Obfuscating Binary Code via Return Oriented Programming." International Conference on Security and Privacy in Communication Systems (SecureComm). Springer, Cham, 2017.

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[3] Obtained annually.