

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

Advisor: [Bing Mao](#)

Pennsylvania State University

Feb. 2018 - Sept. 2018

Research Assistant in College of Information Sciences and Technology

Research: ARM Security, Linux 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 system and software 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

College of Information Science and Technology, Penn State University.

Research Assistant

Feb. 2018 - Sept. 2018

Hardware-assisted Modular Kernel Protections.

Department of Computer Science and Technology, Nanjing University.

Master Student

Sept. 2016 - Jun. 2017

Design dynamic stack guard^[1,2] and new program obfuscation techniques^[3].

Robotics Lab, Zhengzhou University.

Undergraduate Student

Oct. 2013 - Jul. 2014

Design and develop automatic robot control algorithms.

SKILLS

C/JAVA Program Language, Compiler, Operating System, Program Analysis, Software and System Security.

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

¹Source Code: <https://github.com/zhilongwang/PolymorphicCanaries>

AWARDS & HONORS

- Outstanding Graduates of Nanjing University, 2019.
- Scholarship of Shenzhen Stock Exchange, 2018.
- Second-Class Academic Scholarship of Nanjing University, 2017 &² 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 Microsoft Wheeled Micro-Robot Simulation Competition in China Robot Competition, 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.

² Obtained annually.