

Zhiyue Zu

EDUCATION

- 2014 – Now **Master of Science in Security Informatics**, *Johns Hopkins University*, Baltimore.
- 2010 – 2014 **Bachelor of Engineering in Computer Science**, *Nanjing University of Posts and Telecommunications*, Nanjing, GPA 3.3.

EXPERIENCES

- Since **Contributor of webhotpot.com**, *A website for sharing web techniques.*
- 09/2015 Frameworks and tools we used are AngularJS, Node.js, MongoDB, Grunt, semantic-ui. The source code can be found at <https://github.com/TissueFluid/WebTech-Navigate>.
- 2015 Sumr **Software Development Intern**, *Pairyo (www.pairyo.com)*, Suzhou, China.
I worked as a full stack web & backend intern that used technologies like Rails, ReactJS, Redis and PostgreSQL.
- 2014 Sumr **Software Development Intern**, *Jiangyin Broadcasting and Television Bureau*, Jiangyin, China.
I added functionalities to company's WeChat CMS which requires skills related to PHP and MySQL.

PROJECTS

- 2015 **The Heartbleed Bug**
- Mar. – Jun. We developed a honeypot server that pretends to be vulnerable against the Heartbleed Bug, which can record attackers' information, by redeveloping OpenSSL and using libpcap library.
- 2014 **Software Vulnerability Analysis**
- Sep. – Dec. We did reverse engineering against a server program and developed a exploit program that can exploit the server program even with ASLR enabled.
- 2014 **A Burn After Reading File System for Linux**
- Mar. – Jun. A file system based on ext2, which can automatically delete a file once read for the first time.
- 2013 **Data Recovery for YAFFS2**
- Sep. – Dec. We designed a data recovery algorithm for YAFFS2 and implemented it with C++, which can recover historical data on the YAFFS2 image.

PUBLICATION

- 2014 Yang, Yitao, **Zhiyue Zu**, and Guozi Sun. "Historical Data Recovery from Android Devices." *Future Information Technology*. Springer Berlin Heidelberg, 2014. 251-257.

Achievement

- Sep. 1 2015 **NSA CodeBreaker Challenge 2015**, 2nd place in JHU and Top 10 in U.S.
This challenge is all about reverse engineering. I used IDA pro to finish all tasks.
- Oct. 11 2014 **Altamira Scram CTF 2.0**, 3rd place
This CTF competition requires knowledge about network security, computer forensics.

SKILLS

Languages Assembly, C, C++, Javascript, Python
Tools \LaTeX , Git, Mercurial, Vim, IDA pro

Web node.js, ReactJS, AngularJS, MongoDB
Others Reverse Engineering, Shell Scripting