Limin Yang

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Education

Virginia Tech, Ph.D. in Computer Science, GPA: 4.0/4.0, Advisor: Gang Wang	*Aug.2018 – May 2023*
The Pennsylvania State University, Visiting Student, Advisor: Xinyu Xing and Gang Wang	*Sept.2017 – Feb.2018*
East China Normal University, Master Study in Computer Science, GPA: 88.28/100	*Sept.2015 – June 2018*
East China Normal University, BEng in Computer Science, GPA: 3.38/4.0	*Sept.2011 – June 2015*

Experience

Virginia Tech, Graduate Teaching Assistant, Blacksburg, VA   *Aug.2018 – Present*

- TA for Data Structures and Algorithms (CS 3114) and Principles of Computer Security (CS 4264).

XuebaJun, Search & Rank Intern, Shanghai, China   *Sept.2016 – Oct.2016*

- Located reasons of response bottleneck. Read the source code related to searching of XuebaJun app (one of the top 3 mobile apps in its area). Also accomplished a comprehensive code report.

Peking University, Exploit Intern, Shanghai, China   *July 2015 – Aug.2015*

- Supervised by three PhD candidates and learn binary vulnerability discovery/exploit (Windows), Android security (APK unpacking and repackaging), Web security (XSS).

UnionPay Smart, Quantitative Analyst Assistant Intern, Shanghai, China   *Mar.2015 – June 2015*

- Using Hadoop cluster to fetch luxury industry data from the transaction records of 2.7 billion credit cards supported by China UnionPay, written with Python and Shell script.

Publications

[USENIX Security'18] Dongliang Mu, Alejandro Cuevas, **Limin Yang**, Hang Hu, Xinyu Xing, Bing Mao, Gang Wang. "Understanding the Reproducibility of Crowd-reported Security Vulnerabilities." In Proceedings of *The 27th USENIX Security Symposium (USENIX Security)*, Baltimore MD, August 2018. (Acceptance Rate: 100/524=19.1%).

[Globecom'17] Limin Yang, Xiangxue Li, Yu Yu. "VulDigger: A Just-in-time and Cost-Aware Tool for Digging Vulnerability-Contributing Changes." In Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017.

[PPNA'17] Minhui Xue, **Limin Yang**, Keith W. Ross, and Haifeng Qian. "Charactering user behavior in location-based find-and-flirt services: anonymity and demographics." In *Peer-to-Peer Networking and Applications (PPNA)*, 2017.

Projects

Alexa Cloud Spoofing   *Aug.2018 – Oct.2018*

- Developed an Alexa skill with Python for finding authentication issues and potential SQL injection vulnerabilities.

Vulnerabilities Reproduction   *Nov.2017 – Jan.2018*

- Collected bug reports and proof of concepts from websites like exploit-db and summarize missing information.
- Measurement analysis on how crowdsourcing could ease the effort for reproducing a security bug.

Vulnerability Contributing Commits (VCCs) Prediction   *Dec.2016 – Mar.2017*

- A vulnerability prediction model built on Firefox project on code commits level (Precision: 92%, Recall: 14%).
- Effort-aware model: capture 31% VCCs with 20% inspection effort (measured by lines of code).

Hash algorithm cracking with dictionary and GPU attacking   *Mar.2014 – Feb.2015*

- For MD5 encrypted password cracking, 50% faster than Cryptohaze Multiforcer. Written in C and CUDA.

Awards

- ECNU Graduate Student Overseas Research Scholarship	*2017*
- ECNU Top-notch Innovative Personnel Training Plan **(4/91)**	*2013 – 2015*

Skills

Language: Python, C++, C, SQL.   **Basics:** Git, Linux, Photoshop, LaTeX.   **Database:** PostgreSQL
Frameworks and Platforms: Scikit-learn, Ruby on Rails, wxPython, Hadoop, Windows SDK.