RUISHI LI (李蕊诗)

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EDUCATION

University of Chinese Academy of Sciences, Beijing, China ..... Sep. 2019 - Jun. 2022(expected)
M.S. in Cyber Security, Institute of Information Engineering Overall GPA: 3.94/4.00
Advisor: Kai Chen.

Wuhan University, Wuhan, China ..... Sep. 2015 - June. 2019
B.E. in Information Security, School of Cyber Science and Engineering Overall GPA: 3.81/4.00
Advisor: Liqiang Zhang.
Ranked first in recommending excellent undergraduates to study for a master's degree without examination.

RESEARCH INTERESTS

I am broadly interested in operating systems, software engineering and computer security at all layers (e.g., software, system and hardware security). Recently, I focus on vulnerability discovery.

PUBLICATIONS

[1] **RTFM! Automatic Assumption Discovery and Verification Derivation from Library Document for API Misuse Detection.**
Tao Lv, Ruishi Li, Yi Yang, Kai Chen, Xiaojing Liao, XiaoFeng Wang, Peiwei Hu and Luyi Xing. In *Proceedings of the ACM Conference on Computer and Communications Security (***CCS***)*, November, 2020.

> This research utilizes sentimental analysis to recover APIs' integration assumptions (IAs) from documentation and translates them to verification code for a compliance check on the softwares integrating these IAs. We implemented this design and evaluated it on 5 popular libraries (OpenSSL, SQLite, libpcap, libdbus and libxml2) and 39 realworld applications. 193 API misuses were detected at the end.

PROJECT EXPERIENCE

Defense of End-to-end Voiceprint Recognition Based on Synthetic Speech detection ... Jan. 2019 - Apr. 2019

- Test the attack effect of Tacotron2 synthesized speech and ASVspoof2015 synthesized speech on GE2E voiceprint recognition system.
- Propose a new phase-frequency feature LSTM-P and trained a machine learning-based synthetic speech detector.
- Achieve the accuracy of 97.2% when detecting synthetic speech.

The Real-time Miner Hunter ..... Mar. 2018 - July 2018

- Implement a real-time detector for mining software on the Windows platform.
- Integrate the results of three detection modules (data packet structure matching, traffic model detection, and instruction sequence matching).
- Show real-time monitoring results through the UI interface and provide whitelist and interception functions.

INTERNSHIP EXPERIENCES

Deloitte, Wuhan, China ..... July 2018 - Aug. 2018
Tax and Business Advisory Department: developing the financial system for Dongfeng Motor Co. Ltd.

PROFESSIONAL SKILLS

Vulnerability discovery: Fuzzing, symbolic execution, and static analysis (e.g., CodeQL).
Natural language processing: Preliminary in sentiment analysis, dependency parsing, word embedding, Part-of-speech tagging, and shallow parsing.
Programming language: C and Python.

HONORS AND AWARDS

Merit Student, University of Chinese Academy of Sciences (20%, 71/347)	2020
Outstanding Graduates, Wuhan University	2019
First-class Scholarship for Outstanding Students, Wuhan University (5%)	2018
National Inspirational Scholarship, Wuhan University	2018
First Class Prize, The 11th National College Student Information Security Contest (8%, 40/494)	2018
Tianyuan Dic Scholarship, Wuhan University	2018
Merit Student, Wuhan University (10%)	2016, 2017, 2018
Second-class Scholarship for Outstanding Students, Wuhan University (15%)	2016
Freshman Second-class Scholarship, Wuhan University	2015