

Yixin Wu

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Education

Sichuan University

B.S. in Cyberspace security

- GPA: 3.84, 3.88(major) Rank: 1/126
- Average Grade: 90.28, 90.65 (major)

Sichuan, China

Sept. 2017 - June. 2021

National University of Singapore

NUS SOC Summer Workshop

- Advisor: Prof. Hugh Anderson
- Performance: A+
- Outstanding Achievement in Curriculum Project

Singapore

July. 2019 - Aug. 2019

Publications

[SCN'19] Yixin Wu, Yuqiang Sun, Cheng Huang, Peng Jia, Luping Liu. "Session-based Webshell Detection using Machine Learning in Web Logs." Security and Communication Networks (SCN), 2019.

[COSE'20] Yixin Wu, Cheng Huang, Xing Zhang, Hongyi Zhou. "Automatic Attack Actor TTP Profile Extraction and Group Cluster in Internet of Things" Submitted to Computers & Security (COSE), 2020.

Research Experience

Automatic Attack Actor TTP Profile Extraction and Group Cluster in Internet of Things

Sichuan University, Sichuan, China

Research Assistant to Dr. Cheng Huang

Sept. 2019 - Feb. 2020

- Utilize 4 feature sets to characterize different behaviors of attack actors on IoT devices.
- Extract TTP profiles by mapping payloads to the ATT&CK framework based on features.
- Employ the k-means clustering algorithm to cluster attack actors into several groups and generate attack trees to materialize attack behaviors for groups.

Session-based Webshell Detection using Machine Learning in Web Logs

Sichuan University, Sichuan, China

Research Assistant to Dr. Cheng Huang

Sept. 2018 - Apr. 2019

- Identify sessions by leveraging statistical analysis based on the threshold.
- Compare the performance of HMM and LSTM on building a session-based model for webshell detection.
- Compare the runtime of the session-based model and previous works.

Honors & Awards

2019 Second Prize of the 12th National College Student Information Security Competition (CTF)

Beijing, China

2019 Meritorious Winner in Interdisciplinary Contest in Modeling

COMAP, USA

2019 China National Scholarship (top 1% of 126 students)

Beijing, China

2019 Tang Lixin Scholarship

Sichuan, China

2019 First Prize of Academic Scholarship of Sichuan University

Sichuan, China

2019 School Outstanding Student

Sichuan, China

Intern Experience

Alibaba Group

Security Algorithm Engineer

Hangzhou, Zhejiang, China

Jul. 2020 - Oct. 2020

Skills

Tools Tensorflow, Keras, scikit-learn, Pandas, NumPy

Programming C, Python, JAVA, C++, Node.js, LaTeX