Peiran Wang

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Education

09/2018 – Present	Sichuan University, Chengdu, China

· Bachelor of Cyberspace Security Dept. of Cyber Science and Engineering in Cybersecurity Zhuoyue

GPA: 3.89/4.00 (1/173)

Awards: National Student Scholarship during 2018-2019 (Top 2% of 173 students)

University's Scholarship First-class Reward during 2018-2019(Top 2% of 173 students)

University's Scholarship Third-class Reward during 2019-2020 (Top 10% of 173 students)

The provincial third prize of the National University Student Mathematical Contest in Modeling

The provincial third prize of the National University Student Mathematical Contest

Research Experiences

09/2019 - Present — Prof. Chenghuang's group(https://chenghuang.org/), CSE, SCU, China

Project: **A domestic system terminal situation awareness platform based on machine learning**

· Learned the use of flask, osquery, and the abnormal detection method based on machine learning

· Learned network programming, system programming

· Developed a intrusion detection system based on anomaly detection.

04/2020 – Present — Prof. Chenghuang's group(https://chenghuang.org/), CSE, SCU, China

Project: **JavaScript Browser-side Cryptomining Detectionusing Static Methods**

· Learned abstract syntax tree, malicious code detection.

· Learned basic steps for machine learning and how to use it for malicious code detection.

· Learned the processes of composing a paper, the skills of reading, comprehending and summarizing a paper.

· A paper is submitted to IFIP-SEC 2021.

11/2020 – Present — Prof. Beibei Li's group(https://li-beibei.github.io/), CSE, SCU, China

Project: **Research about the byzantine-tolerant mechanism**

· Learned the structure of Federated Learning, how to construct a FL architecture, the problems and challenges remaining in Federated Learning.

· Learned the concept of byzantine attacks in FL , different types of byzantine attacks in FL and current byzantine defense mechanism proposed by former researchers. I'm trying to construct a byzantine-tolerant Federated Learning architecture. I had worked out with the basic idea and was currently working on the codes and paper.

· A paper is expected to be finished within two months.

Publications

1. "**JavaScript Browser-side Cryptomining Detectionusing Static Methods**" <u>P, Wang.</u>(Paper submitted to IFIP-SEC 2021 - EI index)

Research Experiences

- *AI security*
- *Malicious code detection*
- *Federated Learning*

Language Skills

01/2021	IELTS **R**: 8.5 **L**: 8.5 **S**: 6.5 **W**: 5.5 **Total**: 7.5

Technical Skills

· **Preferred programming language:**C/Python/JavaScript/HTML

· **Familiar programming framework:**Flask/Keras/scikit-learn/numpy/matplotlib/pandas