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KAIHANG JI

EDUCATION

Peking University (PKU), 2014-2018

Bachelor of Science in Computer Science, advised by Prof. Yao Guo
GPA of Core Courses: 3.4/5.0

National University of Singapore (NUS), 2018-Present

Ph.D. candidate in Computer Science, advised by Prof. Zhenkai Liang
GPA of Core Courses: 4.9/5.0

RESEARCH INTEREST

System Security: Binary Analysis, Audit Log Analysis

Dynamic Binary Taint Analysis, Binary Similarity, Malware Analysis, Audit Log Behavior Abstraction, APT/Intrusion Detection

PUBLICATION

WATSON: Abstracting Behaviors from Audit Logs via Aggregation of Contextual Semantics
(NDSS'21) (Non-first author)

FlowMatrix: GPU-Assisted Information-Flow Analysis through Matrix-Based Representation
(Usenix Security'22) (First author)

TELL: Log Level Suggestions via Modeling Multi-level Code Block Information (ISSTA'22) (Non-first author)

PROJECT

Co-operated with **Kaspersky**: Malware authorship attribution (Student Leader)

08/2018-07/2019

ACADEMIC SERVICE

External Reviewer: NDSS'21, NDSS'20, AsiaCCS'20, EuroSP'20

WORK EXPERIENCE

National University of Singapore (Research Intern)

06/2017-08/2017

WannaCry Behavior Analysis; Assist implementation of TaintInduce (Accepted by NDSS'19)

System and Network Center of Shanghai Library (Research Intern)

02/2016-03/2016

Knowledge-Graph-based Genealogy Analysis

HONORS & STUDENT SERVICE

Honors & Awards:

Student Travel Grant for S&P 20, USENIX Security 20

2020

Research Scholarship @ NUS

2018

SenseTime Enterprise Reward @ HackPKU2016

2016

Meritorious Award in The Mathematical Contest in Modeling (MCM)

2015

1st place at University Freshman Debate Competition @ PKU

2015

Student Service:

CTO of TECC (Technology & Education: Connecting Cultures) Beijing

2017

Leader of PKU EECS Debate Team

2016

TEACHING ASSISTANT (TUTORIAL)

Practice in System Security (CS4238)

01/2021-05/2021

Practice in System Security (CS4238)

08/2020-12/2020

Practice in System Security (CS4238)

01/2020-05/2020

Web Security (CS5331)

08/2019-12/2019

Practice in System Security (CS4238)

01/2019-05/2019

Web Security (CS5331)

08/2018-12/2018

ACADEMIC CONFERENCES

The 29th USENIX Security Symposium

08/2020

The 41st IEEE Symposium on Security and Privacy, Oakland

05/2020

The 22nd International Symposium on Research in Attacks, Intrusions and Defenses, RAID

10/2019

SKILLS

Program Language

C, C++, Assembly language, Python, Java, PHP

Applications

Binary analysis tools: DynamoRIO, IDA Pro, Angr, Panda, DECAF, etc.

Others: TensorFlow, Cuda, Git, Latex, etc.