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Summary _

I am a software engineer at Google. I earned my CS Ph.D. from Georgia Tech, where I design adversarial cyber-reasoning systems to improve the safety and privacy of software/machine learning systems.

Published 7 research works at top-tier academic conferences (4 first-author ones) such as IEEE S&P and USENIX SEC. Member of Program Committees at premium AI conferences including NeurIPS and ACM WWW.

Work Experience __

Google CA, USA

SOFTWARE ENGINEER Aug. 2024 - now

• Machine Learning for Youtube Recommendation Systems

Palo Alto Networks CA, USA

Senior Researcher Dec. 2023 - Aug, 2024

- Led the research and development of company's first adversarial GenAl product, resulting in one company-approved US patent filing.
 Lead the development of the transformer encoder-based Script Malware detection, contributing 10% detection improvement for previous false
- Developed efficient neural n-gram model for on-device filetype identification.
- · Techniques: AI safety, Natural Language Processing, Online learning

Education

Georgia Institute of Technology

Atlanta, USA

Ph.D. in Computer Science Jul. 2019 - Dec. 2023

• Advisor: Dr. Wenke Lee

• Research focus: Systems security, program analysis

Wuhan University Wuhan, China

B.S. IN COMPUTER SCIENCE Sept. 2014 - Jun. 2018

- · Advisor: Dr. Qian Wang, Dr. Zhibo Wang
- GPA: 3.87/4

Publication

4 FIRST-AUTHOR WORKS IN TOP-TIER CONFERENCES

RedAgent: Red Teaming Large Language Models with Context-aware Autonomous Language Agent.

arxiv

Huiyu Xu, Wenhui Zhang, Zhibo Wang, **Feng Xiao**,Rui Zheng, Yunhe Feng, Zhongjie Ba, Kui Ren

FaceObfuscator: Defending Deep Learning-based Privacy Attacks with Gradient Descent-Resistant Features in Face Recognition.

USENIX SEC'24

Shuaifan Jin, He Wang, Zhibo Wang, **Feng Xiao**, Jiahui Hu, Yuan He, Wenwen Zhang, Zhongjie Ba, Weijie Fang, Shuhong Yuan, Kui Ren

JASMINE: Scale up JavaScript Static Security Analysis with Computation-based Semantic Explanation.

IEEE S&P'24

FENG XIAO, ZHONGFU SU GUANGLIANG YANG, AND WENKE LEE

WEBRR: A Forensic System for Replaying and Investigating Web-Based Attacks in The Modern Web.

USENIX SEC'24

Joey Allen, Zheng Yang, **Feng Xiao**, Matthew Landen, Roberto Perdisci, Wenke Lee

March 16, 2025 FENG XIAO · RÉSUMÉ

Understanding and Mitigating Remote Code Execution Vulnerabilities in Cross-Platform Ecosystem.

ACM CCS'22

FENG XIAO, IAN ZHENG, JOEY ALLEN, GUANGLIANG YANG, AND WENKE LEE

Abusing Hidden Properties to Attack Node.js Ecosystem.

USENIX Security'21

FENG XIAO, JIANWEI HUANG, YICHANG XIONG, GUANGLIANG YANG, HONG HU, GUOFEI GU, AND WENKE LEE

Discovering Hidden Properties to Attack Node.js Ecosystem.

BlackHat'20

FENG XIAO, JIANWEI HUANG, YICHANG XIONG, GUANGLIANG YANG, HONG HU, GUOFEI GU, AND WENKE LEE

Unexpected Data Dependency Creation and Chaining: A New Attack to SDN.

IEEE S&P'20

FENG XIAO, JINQUAN ZHANG, JIANWEI HUANG, GUOFEI GU, DINGHAO WU, PENG LIU

PatternListener: Cracking Android Pattern Lock Using Acoustic Signals.

ACM CCS'18

Man Zhou, Qian Wang, Jingxiao Yang, Qi Li, Feng Xiao, Zhibo Wang, Xiaofeng Chen.

Hacking the Brain: Customize Evil Protocol to Pwn an SDN Controller.

DEFCON'18

FENG XIAO, JIANWEI HUANG, PENG LIU.

Enabling Secure Location Authentication in Drone (poster).

ACM MobiCom'17

FENG XIAO, MAN ZHOU, YOUCHENG LIYE, JINGXIAO YANG, QIAN WANG.

Honors____

2021	Most Innovative Research Runner-up	Pwnie Award, USA
2019	Chair Fellowship.	Atlanta, USA
2018	Rednor IST Fellowship.	State College, USA
2018	ACM CCS Student Travel Grant Award.	Toronto, Canada
2017	LeiJun Scholarship (Top 1 out of 310).	Wuhan, China
2016	National Scholarship (Awarded to top 0.2% undergrads nationwide)	Wuhan, China
2015	Yuanyi Scholarship.	Wuhan, China

Programming languages _____

Natively fluent: Java, Python, Node.js

Conversationally fluent: C, PHP, Matlab