

Junzhe (Joey) Wang

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OBJECTIVE

A PhD student in computer science, whose main research interest centers on systems and software security; a full-stack web developer and machine learning engineer with a strong engineering background seeking an internship opportunity in the area of computer science.

EDUCATION

George Mason University	Fairfax, VA
Ph.D student in Computer Science	Expected May 2025
University of South Carolina	Columbia, SC
Ph.D student in Computer Science	Aug. 2020 - May 2022
Stevens Institute of Technology	Hoboken, NJ
Master of Science in Computer Science	May 2020
Nanjing University of Aeronautics and Astronautics	Nanjing, China
Bachelor of Engineering in Mechanical Engineering and Automation	June 2015

EXPERIENCE

Meta	Menlo Park, CA
Software Engineer Intern	May 2023 - Aug. 2023, May 2022 - Aug. 2022
<ul style="list-style-type: none">Analyze the over-exposure and data dilution issues in quick experiment.Implemented a re-ranking layer in the value model on Facebook Marketplace.	
George Mason University	Fairfax, VA
Research Assistant	Aug. 2022 - May 2023
<ul style="list-style-type: none">Proposed a cross-architecture instruction embeddings on assembly code and apply zero-shot transfer learning to binary code analysis.	
Vertica	Cambridge, MA
System Software Engineer Intern	May 2021 - Aug. 2021
<ul style="list-style-type: none">Integrated HTTPS service into Vertica Server to perform Vertica database administration tasks; built an HTTPS server using libevent and libevhttp in C++ and a web frontend using ReactJS.	
University of South Carolina	Columbia, SC
Research Assistant in Systems and Software Security Research Lab	Aug. 2020 - May 2022
<ul style="list-style-type: none">Proposed a semantics-aware anomaly detection system for applied smart home; detected anomalies by exploiting the correlation violations between devices and localized the root cause of the anomalies.	
Stevens Institute of Technology	Hoboken, NJ
Teaching Assistant for Natural Language Processing Course	Jan. 2020 - May 2020
<ul style="list-style-type: none">Created and graded assignments for students; answered student questions related to the class	
Moore Capital Management	New York, NY
Intern in Quantitative Trading Research and Risk Management	May 2019 - March 2020
<ul style="list-style-type: none">Implemented PCA to evaluate current level of systemic risk; assessed the market fragility relative to its history to gain insight into the current most important driving forces behind the market co-movements.	

PUBLICATION

- [USENIX 2023] Junzhe Wang, Matthew Sharp, Chuxiong Wu, Qiang Zeng, and Lannan Luo. "Can a Deep Learning Model for One Architecture Be Used for Others? Retargeted-Architecture Binary Code Analysis ." 32th USENIX Security Symposium, 2023.
- [DCDS 2022] Junzhe Wang and Lannan Luo. "Privacy Leakage Analysis for Colluding Smart Apps." 52nd Annual IEEE/IFIP International Conference on Dependable Systems and Networks Workshops (DSN-W), pp. 96-102. IEEE, 2022.
- [ACSAC 2021] Lannan Luo, Qiang Zeng, Bokai Yang, Fei Zuo, Junzhe Wang. "Westworld: Fuzzing-Assisted Remote Dynamic Symbolic Execution of Smart Apps on IoT Cloud Platforms." Annual Computer Security Applications Conference, 2021.