

Chang Zhu

ARIZONA STATE UNIVERSITY

699 South Mill Ave – Tempe, Arizona, USA – 85281

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Education

The University of Texas at Dallas

PH.D IN COMPUTER SCIENCE

Aug. 2019 – May. 2021

Arizona State University

PH.D IN COMPUTER SCIENCE

May. 2021 - PRESENT

Publications

Toss a fault to your witcher: Applying grey-box coverage-guided mutational fuzzing to detect sql and command injection vulnerabilities

Erik Trickel, Fabio Pagani, **Chang Zhu**, Lukas Dresel, Giovanni Vigna, Christopher Kruegel, Ruoyu Wang, Tiffany Bao, Yan Shoshitaishvili, Adam Doupe

In Proceedings of the 44th IEEE Symposium on Security and Privacy (S&P), San Francisco, CA, May 22-25, 2023.

Bityr: An Accurate and Adaptive Technique for Type Inference on Binaries

Chang Zhu*, Ziyang Li*, Anton Xue, Hanjun Dai, Mayur Naik, Rajeew Alur, Ruoyu Wang, Aravind Machiry

In Submission

* Indicates equal contribution

Work Experience

Arizona State University

RESEARCH ASSISTANT

May. 2021 - PRESENT

- Research on reverse engineering, specifically focuses on type inference. Utilizing symbolic execution combined with ML technique for type inference.

TEACHING ASSISTANT

- CSE 365 Introduction to Information Assurance Spring2022, Fall2022, Spring2023

The University of Texas at Dallas

RESEARCH ASSISTANT

Oct. 2019 - Dec. 2020

- Research on data provenance analysis for Linux/Windows System. Develop novel technique for intrusion detection.
- Research on Industry Control System (ICS) Security.

TEACHING ASSISTANT

- CS 4376 Object-oriented Design Fall2019, Spring2020
- CS 6329 Object-oriented Software Engineering Fall2019, Spring2020
- CS 4348 Operating Systems Concepts Fall2020

Honors & Awards

SCAI Doctoral Fellowship 2023 Spring

Skills

Computer Skills: Python, C/C++, Javascript, assembly language, SQL, LaTeX

Language Skills: Elementary proficiency German, GOETHE-ZERTIFIKAT B1