

Yuxuan Zhou

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EDUCATION

Syracuse University - The College of Engineering and Computer Science
Ph.D. in Computer and Information Science and Engineering (CISE)
M.S. in Computer Science
GPA 3.92 / 4.00

Syracuse, NY
Aug. 2021 – Present
Aug. 2019 – Dec. 2020

Hubei University - School of Computer Science and Information Engineering
Bachelor of Software Engineering

Wuhan, China
Sept. 2015 - Jun. 2019

University of Minnesota
Summer General Education Program

Minneapolis, MN
Summer 2018

PUBLICATIONS

- Uncovering Atomicity Violations and Security Risks in Decentralized Exchange in the Wild *Jiaqi Chen, Yibo Wang, Yuxuan Zhou, Wanning Ding, Yuzhe Tang, XiaoFeng Wang, Kai Li, 8th IEEE European Symposium on Security and Privacy, 2023*
- Graph4Web: A Relation-Aware Graph Attention Network for Web Service Classification *Kunsong Zhao, Jin Liu, Zhou Xu, Xiao Liu, Lei Xue, Yuxuan Zhou and Xin Wang, Journal of Systems and Software (JSS), 2022 (Invited to SANER'2023 as part of the Journal First Track)*
- Predicting Crash Fault Residence via Simplified Deep Forest Based on A Reduced Feature Set *Kunsong Zhao, Jin Liu, Zhou Xu, Li Li, Meng Yan, Jiaojiao Yu, and Yuxuan Zhou, The 29th IEEE/ACM International Conference on Program Comprehension (ICPC), 2021*

EXPERIENCE

Syracuse University
Research Assistant

Syracuse, NY
Fall 2020 - Present

- Explored Ethereum mem-pool protocols and implemented patches to vulnerabilities that lead to low-cost DoS attack([ref.](#))
- Analyzed smart contracts vulnerabilities and tracked blockchain attacks that exploited smart contracts design flaws
- Uncovered extractable value on Blockchain from secret keys management perspective

Teaching Assistant

Fall 2023 - Present

- CIS655 Computer Architecture

ZTE - Central R&D Institute
Intern of Software Engineer

Nanjing, China
Summer 2023

- Summarized the latest zero-knowledge proof (ZKP) systems (SNARK, STARK) and their applications
- Conducted research on the feasibility of integrating ZKP into ZTE's established trusted computing and blockchain projects
- Developed a ZKP demo that could prove and verify select identity elements while maintaining the confidentiality of the remaining information

PROJECT

- Improved deep-learning based fingerprint recognition system with Generative Adversarial Networks **Dec.2021**
- Developed the online multiplayer or vs-RNN-AI Gomoku games on Python and JavaScript **Fall 2020**
- Applied Logistic Regression and LSTM models to predict and analyze the attitude of the public in different states in the US on COVID-19 on Tweet **Spring 2020**
- Developed inventory monitoring and email alert software in Python, automatic order placement browser plugin in JavaScript for online shopping platform (taobao.com and jd.com) **Dec. 2019**
- Completed Online ordering system back-end design using Spring Boot, RESTful API, Nginx, Redis and SQL **April 2019**

AWARDS AND CERTIFICATIONS

- DSN 2022 Student Travel Award, June 2022
- Qualification Certificate of Computer and Software Technology Proficiency: Intermediate software designer, May 2018
- First prize of Blue Bridge Cup software development competition (Java Group), March 2018
- Merit Student of College, 2016, 2017, 2019
- Scientific Innovation Award of College, 2018

SKILLS

- Python, Go, Solidity, Java, C, C++, C#, JavaScript, SQL