

Yuxuan Zhou

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EDUCATION

Syracuse University - The College of Engineering and Computer Science Syracuse, NY
Ph.D. in Computer and Information Science and Engineering (CISE) Aug. 2021 – Present
M.S. in Computer Science Aug. 2019 – Dec. 2020
GPA 3.92 / 4.00

Hubei University - School of Computer Science and Information Engineering Wuhan, China
Bachelor of Software Engineering Sept. 2015 - Jun. 2019

University of Minnesota Minneapolis, MN
Summer General Education Program 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, and 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 Syracuse, NY
Research Assistant 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

Syracuse University Syracuse, NY
Teaching Assistant for CIS655 Advanced Computer Architecture Fall 2023 - Present

- Collaborated with the course instructor to optimize teaching strategies and conveyed feedback from students
- Supported students in understanding course content through lectures, discussion sessions, and one-on-one consultations
- Assisted in designing and grading assignments, projects, and exams

ZTE - Central R&D Institute Nanjing, China
Intern of Software Engineer 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

PROJECTS

- Improved deep-learning based fingerprint recognition system with Generative Adversarial Networks Fall 2021
- Developed the online multiplayer or vs-RNN-AI Gomoku games in Python and JavaScript Fall 2020
- Utilized Logistic Regression and LSTM models to analyze and predict public sentiment on COVID-19 Spring 2020
- Developed inventory monitoring and automatic order placement browser plugin in Python and JavaScript 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