

# 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 3.93 / 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

- Towards Understanding Crypto-Asset Risks on Ethereum Caused by Key Leakage on the Internet  
**Yuxuan Zhou**, Jiaqi Chen, Yibo Wang, Yuzhe Tang and Guofei Gu, ACM Web Conference (WWW), 2024
- 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

**The Hong Kong Polytechnic University**  
Research Assistant

Hong Kong SAR  
Summer 2024

- Adopted LLMs to Ethereum smart contract vulnerabilities detection
- Optimized prompting engineering in LLMs

**Syracuse University**

Teaching Assistant for CIS655 Advanced Computer Architecture, CSE384 Systems & Network Programming

Syracuse, NY  
Fall 2023 - Present

- Taught lectures with well-prepared course material and facilitated classroom discussions
- Supported students in understanding course content through lectures, discussion sessions, and one-on-one consultations
- Collaborated with the course instructor to optimize teaching strategies and conveyed feedback from students

**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

**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

## 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**

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- Travel Award: ETHDenver 2024, DSN 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**

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