

Jin Yang

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EDUCATION

Syracuse University, College of Engineering & Computer Science

Syracuse, US

Ph.D. in Computer Science

Jul.2023 - present

Master in Computer Science

Aug.2021 - Jun.2023

South-Central University for Nationalities (SCUN), School of Computer Science

Wuhan, China

B.Eng. in Software Engineering (Experimental Class)

Sept. 2017 - Jun.2021

Honors and Awards: Triple-A Student, Student Scholarship, Excellent Student Leader, Prize for The Creative Working, First Prize in 2018 National Mathematical Modeling Contest (Hubei Province)

PUBLICATION

Xiaofan Li, **Jin Yang**, Jiaqi Chen, Yuzhe Tang, Xing Gao. (2024). Characterizing Ethereum Upgradable Smart Contracts and Their Security Implications. In Proceedings of the ACM Web Conference 2024.

RESEARCH&PROJECT EXPERIENCE

FullStack Security Lab, Syracuse University

Oct.2022 - present

Research Assistant on blockchain security, advised by Prof. Yuzhe Tang

Work on some **blockchain security** issue.

- ◇ Analyzed some **smart contracts** and track arbitrage transactions in **DEX**
- ◇ Merged different versions of **solidity** code and do vulnerability analysis
- ◇ Designed hand-on labs for blockchain education

Seed Lab(SEED-emulator), Syracuse University

Jan.2022 - May.2022

Participated in the improvement of seed-emulator, advised by Prof. Kevin Du

mainly focused on network simulation and optimization of blockchain using **Python** and **Web3.js**

- ◇ Added lightweight blockchain feature, limiting the number of concurrent threads and synchronization efficiency, now our simulator is able to run more miner nodes (Mainly for **Ethereum** in PoW mode)
- ◇ Made some improvements to **Docker** components:
 - ✓ Changed the strategy of dockerfile compiler in emulator to optimize the building time of the project
 - ✓ Decoupled applications, reduce dependencies between different internet applications

New Thread Lab, School of Computer Science, SCUN

Jun.2018 - Aug.2020

Participated in the development of several engineering projects, including

- ◇ Developed an Anonymous Scoring System for Academic Affairs Office using **J2EE framework**
- ◇ Developed the official websites of School of Economic & School of Marxism using **Bootstrap** and followed by **Rest API**
- ◇ Developed some WeChat mini-programs, the cumulative number of visits exceeded 10,000 using **Javascript** and **Cloud API**

WORKING&INTERNSHIP EXPERIENCE

IFLYTEK CO., LTD

Hefei, China

Position: Software Developer, Work in Customer BG and Advised by Eng. Dongshen Qin

July 2019 - Aug.2019

Conducted the statistical analysis and processed the background data of the Kuyin APP

- ◇ Implemented algorithm for song classification, based on **Adaboost**
- ◇ Deployed server script & optimized interface design

Developed corresponding functions (AI composition) for the operation team

- ◇ Used **neural network** (Google Magenta framework) to complete audio synthesis
- ◇ Tracked each user's music preferences through data analysis and automatically created their favorite music

KQ GEO TECHNOLOGIES CO., LTD

Wuhan, China

Position: Software Developer, Wuhan Technology Center

Jan.2019 - Mar.2019

Software testing and optimization of the KQ GIS Android (the most popular GIS application in China)

- ◇ Used **LeakCanary** to detect memory leaks
- ◇ Optimized code to reduce **JVM GC(Garbage Collection)** times
- ◇ Added support for **VSYNC** to reduce screen tearing at high refresh rates
- ◇ Reduced Overdraw from the design of the UI to improve the app response speed

SKILLS

Programming Languages: Proficient in Java, Python, Solidity; familiar with JavaScript, SQL, Matlab, C, Kotlin

Framework and Library: Maven, SpringBoot, MongoDB, MySQL, Hadoop, TensorFlow, Numpy, PaddlePaddle