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*)*

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

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.

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