

Kianoush Arshi

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EDUCATION

University of Tehran

BSc in Computer Engineering (Software)

2019–2024

Cumulative GPA: 18.53/20.00

PUBLICATIONS

1. **K. Arshi** and A. Goharshady, “The Solitude of Greed: Congesting Blockchains with A Lonely Transaction”, Under submission at *IEEE International Conference on Blockchain and Cryptocurrency (ICBC)*, December 2023

EXPERIENCE

Hong Kong University of Science and Technology

Research Intern

[Prof. Amir Goharshady](#)

Summer 2023-Fall 2023

- Introduced and evaluated two attacks on Ethereum, resulting in a disruption of service on the blockchain. These attacks were not targeted at the network level but instead took advantage of the rationality of miners.
- Developing a private decentralized banking system.
- Presented a paper on probabilistic programming titled “Positive Almost-Sure Termination – Complexity and Proof Rules” to the ALPACAS research group.

University of Tehran

Research Assistant

[Prof. Behnam Bahrak](#)

- Smart Contract Security Audits Spring 2023
 - * Participated in Code4rena Security Audits and discovered security vulnerabilities in smart contracts developed for DeFi projects.
- A Comparative Analysis of MEV Transactions Pre- and Post-Ethereum Merge Fall 2022-Winter 2023
 - * Implemented a framework for collecting blockchain data with high speed without setting up a node.
 - * Designed an MEV transaction classifier for detecting arbitrage and liquidation transactions.
 - * Analysed arbitrage and liquidation transactions before and after the merge.
- Monero Miner Detector Spring 2022
 - * Developed a Monero Miner Classifier which uses the features of the network packets for detecting malicious mining on the user’s browser.
 - * Attempted to optimize the detector by filtering out network packets based on their frequency

Divar

Full-stack Web Developer

Tehran, Iran

Summer 2021

- Developed a platform with many different applications in a team of 4 developers.
- Utilized several software developing tools and frameworks.

Teaching Assistant

Fall 2020-Spring 2023

- Artificial Intelligence - [Dr. Yaghoubzadeh](#), [Dr. Fadaei](#) Fall 2022-Fall 2023
- Formal Languages and Automata Theory - [Dr. Hojjat](#) Fall 2021-Spring 2023
- Engineering Probability and Statistics - [Dr. Bahrak](#) Fall 2022
- Compiler Design and Programming Languages - [Dr. Ghassemi](#) Spring 2022
- Advanced Programming - [Dr. Khosravi](#) Fall 2021-Spring 2022
- Introduction to Computing Systems and Programming - [Dr. Moradi](#) Fall 2020 and Fall 2021
- Technical English - [Dr. Fatemi](#) Fall 2021-Fall 2022