Ghazaleh Keshavarzkalhori

Email: Ghazaleh.Keshavarzkalhori@uab.cat Google Scholar: Ghazaleh Keshavarz Kalhori

Github ID: qatkk

Mobile: +34-603-679-382Location: Barcelona, Spain

EDUCATION

Universitat Politecnica De Catalunya (UPC) Master of Cybersecurity

Barcelona, Spain

2024 - Now

University of Tehran

Tehran, Iran

Bachelor of Electrical Engineering - Telecommunication; Major GPA: 16.51/20

2018 - 2023

Farzanegan Highschool(National Organization for Development of Exceptional Talents) Mathematics; GPA: 19.88/20

Tehran, Iran 2014 - 2018

Publications

- Building Resilient AI: A Solution to Data and Model Poisoning Prevention: SinConf 2024, IEEE Explore Proceeding
- A blockchain-based privacy-preserving anti-collusion data auction mechanism with an off-chain approach: Journal of Supercomputing, Springer
- Federify: A Verifiable Federated Learning Scheme based on zkSNARKs and Blockchain: IEEE Access
- Unmasking the Illusion: The Shortcomings of Zero-Knowledge Rollups in Achieving Scalability: RECSI 2024, National Security Reunion of Spain

RESEARCH EXPERIENCE

Enhancing Privacy in Channel Announcement of Lightning Network DISCRYPT

UAB, UPC

- o Supervisors: Jordi Herrera Joancomartí, Cristina Perez-Sola, Jorge Luis Villar
- o Master thesis: Jan 2025 Now
- o Scheme design: Using Zero-knowledge proofs for preserving privacy of channel owners while announcing their channels meanwhile proving the authenticity of the channel.

Verifiable Federated Learning Using zkSNARKs

DISCRYPT

UAB

- o Supervisors: Jordi Herrera Joancomartí, Cristina Perez-Sola
- o Research Assistant: Mar 2023 Now
- Scheme design: Enhancement of the previous project of provable federated learning on blockchain with the help of Zero-knowledge proofs

Verifiable Federated Learning

o Supervisor: Mohammad Ali Akhaee

University of Tehran

- \circ Research Assistant: Sep 2021 Sep 2022
- o Implementation: Implementation of a provable federated Gaussian naive Bayes classifier on blockchain

Sharding in Blockchain

Data lab

University of Tehran

- Supervisor: Behnam Bahrak
- o Research Assistant: Mar 2022 Sep 2022
- Research and literature review: Through research and literature review about sharding in blockchain

Sealed-bid Auction for Big-data Management

o Supervisor: Mohammad Ali Akhaee

University of Tehran

- o **Intern**: Jun 2021 Sep 2021
- o **Project**: Implementation of the project, Literature review

SKILLS SUMMARY

• Languages: Python, C++, JavaScript, Solidity

• Platforms: Linux, Zokrates, Arduino, Raspberry, ROS

• Soft Skills: Leadership, Event Management, Time Management

Language

SCL

SCL

- English (C1, TOEFL Score: Reading: 25 || Listening: 29 || Speaking: 24 || Writing: 25 || Overall: 103)
- Spanish (B2)
- Persian (Native)