Maryam Fattahi Vanani

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Professional Summary

Master of Computer Engineering graduate with published research in scalable blockchain systems and network security. Expertise in decentralized application architecture, smart contracts, and resource-efficient protocols for wireless networks. Combines hands-on research with university-level teaching experience in Network Security and a good record of academic achievements.

Education

Master of Computer Engineering-software | Shahid Rajaee University, Tehran, Iran | 2021 – 2023

- **CGPA:** 17.32/20 (Equivalent to 3.6/4.0)

- **Thesis:** A Scalable Blockchain-Based Network for Educational Data Storage and Assessment

- **Research Areas:** Blockchain, Smart Contracts, Decentralized Applications, Cryptography, Scalability

Bachelor of Computer Engineering-software | Shahid Rajaee University, Tehran, Iran | 2015 – 2019

- **CGPA:** 15.13/20 (GPA in final two years: 3.2/4.0)

Research Interests

Blockchain & Smart Contracts | Network Security | Distributed Systems | Cryptography

Applied AI in blockchain | Internet of Things (IoT) | Wireless Communications

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Publications

1. Fattahi Vanani, M., et al. "A Scalable Blockchain-Based Educational Network for Data Storage and Assessments." (Published)

2. Fattahi Vanani, M., et al. "SRCM*: Another Efficient Method for Energy Consumption Reduction in Wireless Body Area Networks based on Data Similarity." (Under Review)

Professional Experience

University Lecturer | National University of Skills (NUS), Shahrekord, Iran | Sep 2024 – Present

- Instructing undergraduate students in computer science courses, including Network Security and Algorithm Design concepts.

- Developing course materials and mentoring students on technical projects, fostering skills in teamwork and collaborative problem-solving.

Computer Teacher | Technical High School, Shahrekord, Iran | Feb 2019 – Present

- Designing and delivering a full curriculum for web development, teaching students proficiency in HTML, CSS, JavaScript, and PHP.

- Taught practical skills in key software, including Adobe Photoshop and Microsoft Office Suite.

Skills

- **Proficient:** Python, JavaScript (Node.js), PHP, HTML/CSS

- **Experienced:** Go (Golang), Solidity (Smart Contracts), C/C++, SQL

- **Familiar:** React, C#

- **Soft Skills:** Teamwork, Problem-Solving, Research, Communication, and Presentation Skills

- **Languages:** Persian (Native), English (Proficient, IELTS 7.0)

Awards and Achievements

- **Membership in the Iran Computer Society**, 2024

- **Top 10% of Master's Degree graduate Students**, Shahid Rajaee University, 2023

- **Top 6 Winner, Best Teacher Competition**, Shahid Rajaee University, 2018

- **Top 1% of National University Entrance Exams**, 2014

- **Winner, International Mathematical Tournament of Towns**, 2011

References

Dr. Hamidreza Shayegh Boroujeni l Thesis Supervisor l Hamidreza.shayegh@esmt.org

- **Current Position:** Enterprise Architect, Business School of ESMT, Berlin, Germany (Former assistant professor at Shahid Rajaee University, Tehran, Iran)

Dr. Ali Nourollah l Thesis Co-Supervisor l Nourollah@sru.ac.ir

- **Current Position:** Assistant Professor, Shahid Rajaee University, Tehran, Iran