Mohammad Matin Ghiyasvand

✉ matin.ghiasvand1381@gmail.com   🎓 Google Scholar   ⚙ GitHub   in LinkedIn

RESEARCH INTERESTS

Zero-Knowledge Proofs	Privacy-Preserving Cryptography
Blockchain & Consensus Algorithms	Decentralization

EDUCATION

B.S. in Computer Engineering, Expected in Jan.   2021 − 2026
Amirkabir University of Technology, Tehran, Iran.
(Rank 2nd among all Iranian Universities)
○ Cumulative Grade Average:
✦ Total 127 Units: **3.67**/*4*   ✦ Last 2-years: **4**/*4*
○ Bachelor thesis Advisor: *Prof. Masoumeh Taromirad*
○ Bachelor thesis: *Design and Implementation of a Blockchain-Based Voting Platform with User Privacy Preservation Using Zero-Knowledge Proofs*

SKILLS AND EXPERTIES

✦ **Programming Languages:** Solidity, Rust, Javascript, Python, C/C++ , Java, C#, Bash Script

✦ **Libraries & Frameworks:** Circom, ZoKrates, Ethers.js, Hardhat, PyTorch, TensorFlow, NumPy, OpenCV, Matplotlib, Scikit-learn, Keras, Pandas, Selenium

✦ **Technologies & Tools:** Linux, Git, Docker, Kubernetes, SQL, Redis, LaTeX

TECHNICAL EXPERIENCE

Lead Blockchain & Backend Developer   Sep 2022 − Sep 2025
droplinked, Los Angeles, CA (Remote)
✦ Developed and deployed multiple smart contracts on more than 10 blockchain networks.
✦ Implemented 50+ backend APIs to handle blockchain-related operations.
✦ Implemented ZKP-based validation to verify coupon usage without exposing sensitive data.
✦ Created APIs and pipelines for Web3 integration and transaction verification.
✦ Built 4 reusable libraries for smart contract integration used in different projects.
✦ Onboarded 3 new blockchain developers and provided mentorship and guidance.

AI Developer (Intern)   Feb 2022 − May 2022
Roshan-AI, Tehran, Iran
✦ Researched methods for automatic headline detection in Persian newspapers and reviewed related work.
✦ Annotated a large dataset of Persian newspaper pages and engineered features to separate headlines from other text.
✦ Designed and tested machine learning and deep learning models, achieving 97.4% accuracy and outperforming existing methods.

RESEARCH EXPERIENCE & PUBLICATIONS

✦ *Design and Implementation of a Blockchain-Based Voting Platform with User Privacy Preservation Using Zero-Knowledge Proofs* — Undergraduate Research Project, Amirkabir University of Technology.   Jan 2025 − Present (Ongoing)

✦ *PromethoniX: Linked Merkle Patricia Trie for Efficient Ethereum State Management* — Ongoing Research Project, Amirkabir University of Technology. Developing an expiration-based account pruning mechanism to reduce unused accounts while preserving $O(\log n)$ transaction efficiency.   Dec 2024 − Present (Ongoing)

- ✤ Allahqoli, L., Laganà, A. S., Mazidimoradi, A., **Ghiyasvand, M. M.**, et al. (2022). Diagnosis of cervical cancer and pre-cancerous lesions by artificial intelligence: A systematic review. *Diagnostics*, 12(11), 2771. *doi*

- ✤ Allahqoli, L., **Ghiyasvand, M. M.**, Mazidimoradi, A., Salehiniya, H., Alkatout, I. (2023). Diagnostic and management performance of ChatGPT in obstetrics and gynecology. *Gynecologic and Obstetric Investigation*, 88(5), 310–313. *doi*

- ✤ Diagnostic Accuracy of Ovarian Cancer using Convolutional Neural Network: A Systematic Review and Meta-Analysis. *BMC Medical Informatics and Decision Making*, **Under Review**. 2025

HONORS & AWARDS

- ✦ Ranked in the top 0.1% *University Entry Exam* among all Iranian students. 2021
- ✦ First place in the *Nobitex* Blockchain-Hackathon. 2023
- ✦ Ranked among the top 10 nationally in the *WMI* Math Competition and awarded an Honorary Diploma in the global round held in Malaysia. 2017

VOLUNTEER EXPERIENCE

- ✤ Implemented a custom Linux image with essential tools for participants as part of the ACPC contest technical team. 2023
- ✤ Managed infrastructure and set up the ICPC judge system for ACPC. 2024
- ✤ Co-Founder of EMIT: First Student Blockchain Event in Iran 2025
  - ○ Gave a blockchain talk and led a hands-on smart contract workshop.
  - ○ Designed the competition and built the entire judging system from scratch.

TEACHING-ASSISTANTSHIPS

- ✤ Computational Intelligence Winter '24, Fall '24
  - ✦ Advisor: *Prof. M.M. Ebadzadeh*
  - ○ Designed student project ○ Graded student projects
- ✤ Microprocessor and Assembly Language Winter '25
  - ✦ Advisor: *Prof. Hamed Farbeh*
  - ○ Created assembly tutorial videos ○ Graded Student projects
- ✤ Software Engineering 1 (CE Department) Fall '24
  - ✦ Advisor: *Prof. Amir Kalbasi*
  - ○ Designed & graded exercises ○ Contributed to project design
  - ○ Scrum Master for 2+ teams ○ Conducted multiple TA sessions
- ✤ Software Engineering 1 (CS Department) Fall '24, Fall '25
  - ✦ Advisor: *Prof. Zahra Ghorbanali*
  - ○ Prepared & evaluated assignments ○ Assisted in project planning
  - ○ Checked & scored student projects ○ Scrum Master for 2+ teams

SPOKEN LANGUAGES

- ✤ **English** Proficient
  TOEFL iBT Will be taken in October 1, 2025

- ✤ **Persian** Native Speaker

REFERENCES

Masoumeh Taromirad (Asst. Prof.)	m.taromirad@aut.ac.ir
Hamed Farbeh (Prof.)	farbeh@aut.ac.ir
Zahra Ghorbanali (Asst. Prof.)	z_ghorbanali@aut.ac.ir

Official certificates, documents, and other references are available upon request.
Last Update: September 2, 2025