

# Ahmad Mohammadi

DoB: April 2<sup>th</sup>, 1986

PoB: Ahwaz, Iran

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## [EDUCATION]

- **Sharif University of Technology, Tehran, Iran, 2020 – 2023**  
M.Sc. in Computer Engineering (Secure Computing), GPA 17.8/20  
Supervisor: [Dr. Rasoul Jalili](#)  
Thesis Title: Preserving data utility in applying differential privacy on correlated data
- **Amirkabir University of Technology, Tehran, Iran, 2014-2016 / Shiraz University, Shiraz, Iran, 2016 – 2018**  
B.Sc. in Electrical Engineering, GPA 16.65/20

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## [PUBLICATION]

- [CALDP: A Correlation-Aware Approach to Local Differential Privacy](#), M.Zolfaghari, **A.Mohammadi**, R.Jalili, 2024 (Under review)
- [Privacy book](#), Dwork, Translated to Persian by M.Zolfaghari, **A.Mohammadi**, R.Jalili, 2024 (to be published)
- [Infrared Cloaking by Scattering cancelation Method using Graphene](#), M.Danaeifar, **A.Mohammadi**, N.Granpaye, IOP Science, 2014
- [Graphene based tunable terahertz and infrared bandpass filter](#), Danaeifar, N.Granpaye, **A.Mohammadi**, A.Setayesh, APPLIED OPTICS, 2013
- [Tackling Terahertz Transceiver Design](#), **A.Mohammadi**, M.Danaeifar, Microwave & RF, 2013

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## [EDUCATION EXPERIENCES]

### TEACHER ASSISTANT (TA)

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- Information theory and coding Course by [Dr. Mahdi Jafari Siavoshani](#), Sharif University of Technology, Fall 2022
  - Applied cryptography Course by Dr. Koochak Shooshtari, Sharif University of Technology, Spring 2023
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### [HONORS AND AWARDS]

- Thesis recognized with an honorable mention by the Iranian Cryptography Association, 2024
  - Recognized as a Scientific Talent by the [National Elites Foundation](#), Iran, 2023.
  - Achieved 15<sup>th</sup> Place in [Nationwide University Entrance Exam](#) for M.Sc. Program in Computer Engineering (among More Than 20000 Competitors), Iran, 2020.
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### [CERTIFICATES]

- Red Team (SEC565), 40 hours, NooraNet, 2023
  - Linux Forensic (FOR577), 30 hours, NooraNet, 2023
  - Network Forensic (FOR 572), 30 hours, NooraNet, 2022
  - Security Certified Professional (PWK), 30 hours, NooraNet, 2022
  - Certified Ethical Hacker (CEH), 40 hours, NooraNet, 2021
  - Machine & Deep learning Specialization, Coursera, Andrew NG., 2020
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### [WORK EXPERIENCES]

- **Network security Expert** at [MCI](#), Tehran, Iran, 2024-Present
  - Linux forensic
  - Red team member
  - Web Application Penetration test
  - Network Security Audit
  - Datacenter Security
- **Data Governance Office Manager** at [MCI](#), Tehran, Iran, 2022-2024
  - Data privacy and Access Control tools development

- Data Discovery and quality testing tools development
    - Data Governance Policy development
    - Data strategy development
    - Digital Services data analysis
  - **Researcher and Developer** at [MCI](#), Tehran, Iran, 2021-2022
    - Developing User Identity Approaches
    - Developing Users Access Control System
  - **Freelance Developer**, Tehran, Iran, 2020-Present
    - Django Developer for web applications
    - Python Developer for data analysis
  - **Researcher and Developer** at [National cyberspace Center](#), Tehran, Iran, 2018-2021
    - Social media analysis
    - Python developer
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## [SKILLS]

### CONCEPTUAL SKILLS

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- Data Privacy
- Differential privacy
- Information Theory
- Machine/Deep learning
- Cryptography Theory and Application
- Formal Methods
- Network Security
- Web application Security
- Network Concepts and Designs

### TECHNICAL SKILLS

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- **Programming Languages:** Python, C, PowerShell, HTML, JavaScript, SQL, Bash
- **Frameworks:** Django, React
- **Operating Systems:** Linux (Ubuntu, Kali), Microsoft Windows & Windows Server Distributions
- **Softwares and Tools:**
  - DBMSs (Microsoft SQL Server, MySQL, PostgreSQL)
  - Network Tools (Cisco Packet Tracer, WireShark, Nmap, tcpdump)
  - Firewall & IDS (Iptables, Snort, Suricata)

- Web Scanners (Acunetix, NetSparker, SQLmap, Burp Suit)
- Virtualization Tools (Virtualbox, VM-ware)

### LANGUAGES

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- First Language: Persian
  - Fluent in Reading, Listening, Speaking and Writing English
  - Familiar with Korean
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### [REFERENCES]

- [Dr. Rasool Jalili](#), Associate Professor and Faculty Member of Computer Engineering Department, Sharif University of Technology, Email: [jalili@sharif.edu](mailto:jalili@sharif.edu) (Master's Supervisor)
- [Dr. Morteza Amini](#), Associate Professor and Faculty Member of Computer Engineering Department, Sharif University of Technology, Email: [amini@sharif.edu](mailto:amini@sharif.edu) (Master's Thesis Reviewer)
- [Dr. Mohammad Danaeifar](#), Assistant Professor and Faculty Member of Electrical Engineering Department, University of Qom, Email: [m.danaeifar@qom.ac.ir](mailto:m.danaeifar@qom.ac.ir)