

Mahmoud Aghvamipannah

Data and Network Security Lab., Computer Engineering Dept., Sharif University of Technology(SUT)., Iran.

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Research Interests

- Security and Privacy of IoT Platforms
- Privacy-Preserving Machine Learning
- Software Security Testing
- Software and web Security

Education

- **Ph.D. Candidate**, Computer Engineering, Software - Sharif University of Technology, Iran.
GPA: **17.40/20 (4.00/4.00)** - Supervisor: Morteza Amini *Sep 2018 - now*
- **M.Sc.**, Information Technology, Information Security - Amirkabir University of Tech., Iran.
GPA: **17.89/20 (4.00/4.00)** - Supervisor: Babak Sadeghian *Sep 2016 – Sep 2018*
- **B.Sc.**, Computer Engineering, Software - KhajeNasir University of Technology, Iran.
GPA: **18.33/20 (4.00/4.00)** - Supervisor: Saeed Sedighian *Sep 2012 – Sep 2016*

Research Experiences

- **Research Assistant** at Data and Network Security Lab. (DNSL) *Sep 2018 – now*
Ph.D. Thesis: **Privacy-preserving IoT Platforms**
- **Research Assistant** at Data Security Lab. Amirkabir University *Mar 2017 – Sep 2018*
M.Sc. Thesis: **Detecting Logic Bomb in Android Malware through Concolic Execution**

Publications and Technical Reports

- **Privacy on IoT Platforms**, Ph.D. Research Proposal (In Persian), SUT, Feb 2021.
- **Guided Concolic execution for test input generation of Android Applications**, with Ehsan Edalat and Babak Sadeghian, 26th Iranian Conference on Electrical Engineering, Mashhad, Iran, (In Persian), May 2018.
- **Malware Detection by Concolic Execution**, Survey report for Seminar course (In Persian), AUT, 2017.
- **Formal Analysis of DASS key-exchange protocol** with Faezeh Nasrabadi, Project report for Security Protocols course (In Persian), AUT, 2017.

Teaching Experiences

- **Teaching Assistant, Database Design**, SUT *Fall 2018, 2019, 2020, Spring 2018*
Under the supervision of Morteza Amini
- **Teaching Assistant, Data & Network Security**, SUT *Spring 2019, 2020*
Under the supervision of Morteza Amini
- **Teaching Assistant, Semantic Web**, SUT *Fall 2019*
Under the supervision of Morteza Amini
- **Instructor, Computer Lab**, SUT *Fall 2020*
- **Teaching Assistant, Database Security**, AUT *Fall 2019*
Under the supervision of Salman Niksefat

Honors and Awards

- Recognized as a **Scientific Talent** by the National Elites Foundation of Iran, Since 2016.
- Offered for **Direct Admission** to graduate school (**Ph.D.**) in Computer Engineering – Software from two top universities in Iran, the **University of Tehran and Amirkabir University of Technology**, 2018.
- Awarded as the **Outstanding Graduate Student** and Achieved **1st** place in 2016-entries in Information Security major, AUT, 2017 and 2018.
- Achieved **35th** place among all applicants for the M.Sc. University Entrance Nationwide Exam in Information Technology (~30000 applicants), Iran, 2016.
- Selected as a university team member for the National Scientific Olympiad in Computer Engineering (**1st place among undergraduate students**), **KNTU, 2016**.
- Awarded as the **Outstanding Graduate Student** and Achieved **1st** place among 2012-entries in Computer Engineering, KNTU, 2012- 2016.

Work Experiences

- **Mahsan** Sep 2019 – now
Information Security Team leader
- **Kahkeshan Moshaver** June 2018 – Sep 2019
Security Consultant and Provider of Security Protection Profiles
- **AUT CERT Lab.** Sep 2017 – Sep 2018
Web Application Security Tester
- **ArmanRayan Sharif** June 2016 – Apr 2017
Security Consultant and Software Security analyst

Technical Skills

- **Programming Languages:** Java, C/C++, Python.
- **Penetration Testing:** Web and Android Application Penetration Testing.
- **Fuzzing and Software Testing Skills:** Application fuzzing, Binary files analysis (OllyDbg)
- **Digital Forensics**(SANS FOR500.1-5)

Languages

- **Persian** (Farsi): Native
- **English:** Professional working proficiency (MSRT*: 81/100)

References

- **Morteza Amini, Associate Professor** [amini@sharif.edu]
Supervisor and Member of Software Group, Sharif University of Technology
- **Babak Sadeghiyan, Associate Professor** [basadegh@aut.ac.ir]
Member of Software Group, Amirkabir University of Technology
- **Rasool Jalili, Associate Professor** [jalili@sharif.edu]
Member of Software Group and Head of Sharif University, Sharif University of Technology

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