

Mahmoud Aghvamipناه

[Data and Network Security Lab. \(DNSL\)](#)., Computer Engineering Dept., Sharif University of Technology, Tehran, Iran.

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Research Interests

- Security & Privacy on IoT Platforms
- Adversarial Machine learning
- Software & system Security

Education

Ph.D. Candidate, Computer Engineering, Software — [Sharif University of Technology](#), Iran.
Sep 2018 - now

GPA: **17.40/20 (4.00/4.00)** — Supervisor: [Morteza Amini](#)

M.Sc., Information Technology, Information Security — [Amirkabir University of Technology](#) (Tehran Polytechnic), Iran. *Sep 2016 – Sep 2018*

GPA: **17.89/20 (4.00/4.00)** — Supervisor: [Babak Sadeghian](#)

B.Sc., Computer Engineering, Software — [KhajeNasir University of Technology](#), Iran.
Sep 2012 – Sep 2016

GPA: **18.33/20 (4.00/4.00)** — Supervisor: [Saeed Sedighian](#)

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**

Teaching Experiences

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

- **Teaching Assistant , Database Security.** *Fall 2019*
Under the supervision of [Salman Niksefat](#)

Publications and Technical Reports

- **“Guided Concolic execution for test input generation of Android Applications”** with Ehsan Edalat - 26th Iranian Conference on Electrical Engineering, Mashhad, Iran, [\(In Persian\)](#) May 2018.
- **“Detecting Logic Bomb in Android Malware through Concolic Execution”** - M.Sc. Thesis(+ Oral defense) (In Persian), AUT, 2018.
- **“Formal Analysis of DASS key-exchange protocol”** with Faezeh Nasrabadi - Project report for Security Protocols course (In Persian), AUT, 2017.

Honors and Awards

- Recognized as a **Scientific Talent** by the [National Elites Foundation of Iran](#), 2016.
- Offered for **Direct Admission** to graduate school (**Ph.D.**) in Computer Engineering - Software, from two top universities of Iran, **University of Tehran and Amirkabir University of Technology**, 2018.
- Awarded **Outstanding Graduate Student Scholarship** and Achieved **1st** place among 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 member of the university team for the [National Scientific Olympiad](#) in Computer-Engineering (**1st place among undergraduate students**), KNTU, 2016.
- Awarded as the **Outstanding Graduate Student Scholarship** and Achieved **1st** place among 2012- entries in Computer Engineering, KNTU, 2012- 2016.

Work Experiences

- [ArmanRayan Sharif](#) *May 2019 –May 2020*
Security Consultant and Software Security analyst
- [Kahkeshan Moshaver](#) *June 2018 –May 2019*
Security Consultant and Provider of Security Protection Profiles
- [AUT CERT Lab.](#) *June 2017 –June 2018*
Web Application Security Tester, Software Developer

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): Mother tongue (Native)
- **English:** Professional working proficiency (MSRT *1: 81/100)

References

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

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