

# 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 , Fall2019, 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
- **Instructure , Computer Lab.** *Fall 2020*  
Under the supervision of Morteza Amini

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

Fall2019

## Publications and Technical Reports

- **"Guided Concolic execution for test input generation of Android Applications"**, 26th Iranian Conference on Electrical Engineering, Mashhad, Iran, *(In Persian)* May 2018.
- **"Malware Detection by Concolic Execution"**, Report for Seminar course (In Persian), AUT, 2017.
- **"Formal Analysis of DASS key-exchange protocol"**, Project report for Security Protocols course (In Persian), AUT, 2017.

## Workshops

- **Android Penetration Testing**, IEEE Student Branch KhajeNasir University of Technology, Tehran, Iran, April 2016.

## Honors and Awards

- 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, 2016 and 2017
- Awarded as the Outstanding Student and Achieved 1st place among 2016 beginner graduate students in Information Security major, AUT, 2017 and 2018.
- Selected as a member of The National Elites Foundation ([www.bmn.ir](http://www.bmn.ir)) as a reward of academic records and achievements, Iran, 2016.
- Achieved 35th place among all applicants for the M.Sc. University Entrance Nationwide Exam in Information Technology, Iran, 2016.
- Qualified to Direct Admission to graduate school (M.Sc.) of Computer Engineering and IT Department, Tarbiat\_Modares University, 2015.
- Awarded as the Outstanding Student and Achieved 1st place among 2012 beginner students in Computer Engineering-Software, Khajeh Nasir Toosi University of Technology, 2012-2016.

## 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](mailto:amini@sharif.edu)
- **Babak. Sadeghiyan, Associate Professor**  
Member of Software Group, CEIT, Amirkabir University of Technology  
Email: [basadegh@aut.ac.ir](mailto:basadegh@aut.ac.ir)
- **Rasool. Jalili, Associate Professor**  
Member of Software Group and Head of Sharif university, CE, Sharif University of Technology  
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