


Rasoul JAHANSHAH

Ph.D. Student at Boston University

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Headline Section

EDUCATION

Current Sep. 2016	Ph.D. Computer Engineering, BOSTON UNIVERSITY, Boston, MA <ul style="list-style-type: none">> Thesis Title : —> Supervisor : Prof. Manuel Egele> GPA : 3.6/4
Aug. 2016 Sep. 2013	M.Sc. Computer Engineering, AMIRKABIR UNIVERSITY OF TECHNOLOGY, Tehran, Iran <ul style="list-style-type: none">> Thesis Title : Privacy Preserving Genetic Algorithm> Supervisor : Prof. Babak Sadeghian> GPA : 15.74/20
Aug. 2013 Sep. 2009	B.Sc. Computer Engineering, ISFAHAN UNIVERSITY OF TECHNOLOGY, Isfahan, Iran <ul style="list-style-type: none">> Thesis Title : Improving Watermarking with NSGA II> Supervisor : Dr. Nader Karimi> GPA : 17.43/20

ACHIEVEMENT

- > **Best paper award** for "*Hardware Performance Counters Can Detect Malware : Myth or Fact?*" from ACM asia conference on computer & communication security 2018.
- > **Scholarship for the graduate studies** from school of engineering, Boston University, 2016.
- > **Scholarship for the graduate studies** from the school of computer engineering, Isfahan University of Technology, 2013.
- > **Scholarship for the graduate studies** from the school of computer engineering, Amirkabir University of Technology, 2013.
- > **Ranked 4th among computer engineering students** Isfahan University of Technology, 2013.
- > **Ranked 4th among software engineering students** Isfahan University of Technology, 2013.

PUBLICATION

- > Zhou, Boyou, Anmol Gupta, Rasoul Jahanshahi, Manuel Egele, and Ajay Joshi. "*Hardware Performance Counters Can Detect Malware : Myth or Fact?*" ASIACCS 2018.

SKILLS

Programming Languages	Java, C, C++, Python
DBMS	MySQL, PostgreSQL
Development Env.	Docker, git, Maven, IntelliJ Idea, Eclipse, Visual Studio Code
Operating Systems	Linux Ubuntu, Mac OS X, Windows
Security Tools	Metasploit, Nessus, Cain&Abel, Acunetix, Nmap
Reverse Engineering	IDA Pro, DJ Java Decompiler
Familiar With	Machine Learning, PHP, Wireshark, VMware ESXi, Android Programming

SELECTED PROJECTS

- > **Penetration Test of Saman bank's Desktop application**
Cert Division of Amirkabir University of Technology, 2015.
- > **Penetration Test of Refah bank's Android Application**
Cert Division of Amirkabir University of Technology, 2015.
- > **Implementation and Analysis of Crammer's Voting Protocol**
Final Project of "Security Protocols" course : Dr. B.Sadeghian, CEIT Dept. Amirkabir University of Technology, 2014.

- > **Improvement in Digital Watermarking by Multi-Objective Genetic Algorithm NSGA II.**
B.Sc. Thesis. ECE Dept. Isfahan University of Technology 2013.
- > **Differential Cryptanalysis of DES Cryptosystem**
Final Project of “Cryptography” course : Dr. B.Sadeghian, CEIT Dept. Amirkabir University of Technology, 2013.
- > **Twofish Cryptosystem Analysis, Implement Twofish Cryptosystem and analysis its avalanche Properties and randomness**
Final project of “Cryptography” course : Dr. B.Sadeghian, CEIT Dept. Amirkabir University of Technology, 2013.
- > **Preventing Information Flow via SELinux**
Implementing the principle of least privilege, Preventing access to high risk programs and data, by compromised programs.
Final Project of “Secure Computing Systems” course : Dr. shajari CEIT Dept. Amirkabir University of Technology, 2013.

ACADEMIC POSITIONS

Aug. 2016 Sep. 2015	Research Assistant , AMIRKABIR UNIVERSITY OF TECHNOLOGY , Data Security Research Lab (Supervised by Prof. Babak Sadeghian) Research on Privacy Preserving of Genetic Algorithms
Fall 2015	Teaching Assistant , AMIRKABIR UNIVERSITY OF TECHNOLOGY , Head teaching assistant Duties included giving lectures, fielding of all students' inquiries, and oversight student teaching assistants and graders. Undergraduate Course, Discrete Mathematics
Fall 2015	Teaching Assistant , AMIRKABIR UNIVERSITY OF TECHNOLOGY , Co-Teacher assistant Responsibility included for lectures, exams, homework assignments, defining projects and grades. Graduate Course, Secure Protocols
Fall 2015	Lab Instructor , CERT DIVISION OF AMIRKABIR UNIVERSITY OF TECHNOLOGY , Responsibility included for lecture, exam, and grade. Graduate Course, Penetration test Lab
Summer 2013	Lab Instructor , ISFAHAN UNIVERSITY OF TECHNOLOGY , Responsibility for lectures, exams, homework assignments, and grades. Undergraduate Course, Operating Systems lab
Fall 2013	Teaching Assistant , ISFAHAN UNIVERSITY OF TECHNOLOGY , Responsibility for homework assignments, and grades. Undergraduate Course, C Programming

WORK EXPERIENCE

March 2016 July 2015	Researcher in Incident Response Team, AMIRKABIR UNIVERSITY OF TECHNOLOGY CERT LAB, Tehran-Iran Security Specialist Job content : <ul style="list-style-type: none"> > Penetration Testing of Window, Android and iOS application > Penetration Testing of websites > Administration and Hardening of ESXi Server
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