Rasoul JAHANSHAHI
Ph.D. Student at Boston University

in linkedin.com/in/rasouljahanshahi
⚙ github.com/rasoul-jahanshahi
@ rasoulj@bu.edu
📍 8 Saint Mary's St. Room 302, Boston, MA

Headline Section

🎓 EDUCATION

Current Sep. 2016	**Ph.D. Computer Engineering, BOSTON UNIVERSITY, Boston,MA** ❯ **Thesis Title** : — ❯ **Supervisor** : Prof. Manuel Egele ❯ **GPA** : 3.6/4
Aug. 2016 Sep. 2013	**M.Sc. Computer Engineering, AMIRKABIR UNIVERSITY OF TECHNOLOGY, Tehran, Iran** ❯ **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** ❯ **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.

❯ **Honorary Admission for Graduate Study** from the school of computer engineering, Isfahan University of Technology, 2013.

❯ **Honorary Admission for Graduate Study** from the school of computer engineering, Amirkabir University of Technology, 2013.

❯ **Ranked 4th among computer engineering students** (total 60) at Isfahan University of Technology, 2013.

📝 PUBLICATION

❯ ”Hardware Performance Counters Can Detect Malware : Myth or Fact?”. Zhou Boyou, Anmol Gupta, Rasoul Jahanshahi, Manuel Egele, and Ajay Joshi. 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

❯ NeverCookie
Boston University, Fall 2017.

Detecting websites which are using evercookie to track their users and delete evercookie from user's browser.For more information you can look at the github page for the project.(*link*)

> Mongoose
Boston University, Spring 2017.
Using HPCs to train machine learning algorithm to detect prime+probe cache attacks. For more information you can look at the github page for the project.(*link*)

> Detecting vulnerabilities in plugins of Kodi
Boston University, Spring 2017.
Kodi is a free and open source media application. Users can download plugins that allow users to stream media or access video libraries or look through their emails while watching. We found multiple vulnerabilities in these plugins which allow an attacker to read victim's private information.

> Using learning methods for intrusion detection on network
Boston University, Fall 2016.
Using different methods of machine learning like decision tree, random forest, regression and etc. to detect intrusion detections based on KDD'99 dataset .

> 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

Spring 2018	Graduate Teaching Assistant, BOSTON UNIVERSITY , Head teaching assistant. Responsibility included for some lectures, exams, homework assignments, defining projects and grades. Undergraduate Course, Cyber security
Sep. 2017 Oct. 2016	ACSAC 2017 Artifact committee member , BOSTON UNIVERSITY, I served in ACSAC 2017 Artifact Committee. For more information you can visit this https ://www.acsac.org/2017/committees/
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 Responsibility 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 : > Penetration Testing of Window, Android and iOS application > Penetration Testing of websites > Administration and Hardening of ESXi Server