Hoda Maleki

CONTACT

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EDUCATION

University of Connecticut — **2018 (expected)**

Ph.D., Computer Science and Engineering

Advisor: Marten van Dijk

Current Research Projects: Cloud Computing, Security in Supply Chain Management, Network Security - Moving Target Defense

Relevant Coursework: Secure Computation and storage, Advanced Computer Networks, Information and Data Security, Cryptography: Foundations

Tehran Polytechnic University, Tehran, Iran — **2008**

M.Sc, Information Security

Thesis: The Effect of Rules for Cellular Automata Based Secret Sharing Schema

Relevant Coursework: Secure Computer Systems, Network Security, Applied Cryptography, Security Protocols, Formal Methods and Information Security, Database Security

Tehran Polytechnic University, Tehran, Iran — **2005**

B.Sc, Software Engineering

Thesis: Designing and Implementing Interactive voice response to Hospital calls

Relevant Coursework: Advanced Computer Programming, Discrete Structures, Machine Language Programming, Data Structure and Algorithms, Electronic Circuits, Logic Circuits, Design of Programming Language, Software Engineering, Design of Algorithms, Computer Networks, Principles of Compiler Design, Artificial Intelligence

EXPERIENCE

Summer Intern Comcast, Philadelphia, US — **Jun-Aug 2016**

Developed a proof of concept counterfeit product detection method for RFID-enabled supply chains.

Graduate Assistant, CSE Department, University of Connecticut — **Aug 2014-Present**

Security Consultant, Information Technology Department, Samen Co., Tehran, Iran — **May 2012-Aug 2014**

- Provided security policy for Samen Co.
- Maintained network security and implemented security features
- Applied security checklist to switches and routers
- Penetration test

Instructor in Dr. Shaiaty College, Tehran, Iran **Sep 2008-Aug 2012**

- Introduction to Database
- Store and Retrieve Information
- Database Lab
- PHP Programming
- C++ Programming

PUBLICATIONS

- **Maleki, Hoda**, Reza Rahaeimehr, and Marten van Dijk. "LightSource: Ultra Lightweight Clone Detection of RFID Tags from Software Unclonable Responses.", Cryptology ePrint Archive, Report 2016/608, eprint. iacr. org/ 2016/608/, 2016.
- **Maleki, Hoda**, and Babak Sadeghiyan. "Compound of reversible one-dimensional CA rules for two-dimensional CA with cryptographic applications." Computer Conference, 2009. CSICC 2009. 14th International CSI. IEEE, 2009. (Acceptance rate: 28%)
- **Maleki, Hoda**, and Babak Sadeghiyan." Combination of Reversible One-Dimensional CA Rules for TDCA with Cryptographic Applications," Computer Conference, 2008. 13th International CSI 2008. (Acceptance rate: 28%)

ACADEMIC PROJECTS

Security Projects

- Implementing pseudorandom generator
- Identification and Exploitation of Buffer Overflow vulnerability
- Attack to a Weak Cipher and finding the Secret Key
- Attack to a Linux server and creating Shell access
- Implementation of Digital Coin Protocol
- Design & Implementation of New Cipher using AES component

System Designing Projects

- Implementing load balancer using Mininet simulator
- Designing and Implementing Hospital's Interactive voice response
- Simulating process management of operating system
- Designing and Implementing Medical Assistance System
- Designing and Implementing Accounting systems and Storage

TECHNICAL SKILLS

Languages: C/C#/C++, PHP, ASP, VB.Net

Database: My SQL, Microsoft SQL Server

Security Tools: Wireshark, Nessus, Nmap

HONORS

- Honors Student in M.Sc. Information Security at Tehran Polytechnic University (2008)
- Medalist for "Best B.Sc. thesis in Software Engineering" at Tehran Polytechnic University (2005)
- Honors Student in B.Sc. Software Engineering at Tehran Polytechnic University (2005)
- Merit Scholarship holder for two consecutive years from Polytechnic University (2002)

SERVICES

- Member, Bushehr Earthquake Fundraising (Apr 2013)
- Childcare volunteer in "Green Heart Charity" for two years, Tehran, Iran (2010-2012)