

# Reza Rahaeimehr

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## EDUCATION

- Ph.D. in Computer Science and Engineering**  
*University of Connecticut, Storrs, CT, USA. GPA: 4.0/4.0*  
Jan '16 – Sep '19 (Expected)  
*Relevant coursework:* Cloud Computing, Distributed Systems Security, Distributed Computing, Information and Data Security
- Master in Software Engineering**  
*Tehran Polytechnic University, Tehran, Iran*  
Sep '05 – Feb '08  
*Thesis:* Designed and developed a virtual reality classroom for enhanced student teacher interaction  
*Relevant coursework:* Advanced Database, Advanced Operating Systems, Advanced Computer Architecture
- B.Sc. in Software Engineering**  
*Isfahan University, Isfahan, Iran*  
Sep '00 – Aug '05  
*Thesis:* Live video delivery over dial up land line  
*Relevant coursework:* Database, Data Structure, Systems Analysis and Design, Algorithms and Data Structures

## ACADEMIC PROJECTS

Set up a sample website on Amazon Web Services cloud platform, created multiple replicas, and setup load balancer between replicas.  
Applied CSRF, XSS, and SQL Injection attack on a web site and found the website administrator's password and faced off the website.  
Identified and exploited Buffer Overflow vulnerabilities of 5 sample programs  
Broke in HTTPS connection which was not properly setup in 5 different levels.  
Designed and developed secure web site which is resilience against SQL injection, XSS, and CSRF attacks  
Ongoing work on setting up OpenStack

## TECHNICAL SKILLS

Cloud platforms: *OpenStack, and Amazon Web Services*  
Database management systems: *Microsoft SQL Server, and MySQL*  
Programming languages: *Python, C++, C#, ASP.Net, VB.Net, PHP, JavaScript, Delphi, HTML, CSS, C/C++, ASP.net, PHP, and VB.Net*  
Security Tools: *Wireshark, OpenSSH*

## EXPERIENCE

- Research Assistant Dept. of CSE, University of Connecticut, Storrs, CT**  
Jan'16-Present
- Cloud computing research including Security Analysis of OpenStack (a collaborative work with Boston university), and Setting Up OpenStack
  - Collaboration with Massachusetts Open Cloud team on "Resource Federation"
  - Developed an RFID based method to detect counterfeit products
  - Developer and manager of the UConn Secure Computing Lab website
- Software Engineering Group Director Dep. Of CSE, University of Shariaty, Tehran, Iran**  
Sep'12-Aug'14

- Instructor in Dep. Of CSE, University of Shariaty, Tehran, Iran**
- Taught CSE Computer Science and Engineering Courses including: Web Design, Principles of Databases, and Advanced Topic in Software Engineering.
  - Supervised more than **100 BSc theses** in Computer Science.
- Technical manager at MIS Software Co., Bahman St, Tehran, Iran**
- Designed and supervised of developing of an ERP software implemented with C# and Microsoft SQL Server
  - Designed and supervised of developing several ASP.net-MS SQL Server, and PHP-MySQL websites including Golden Insurance website, and Shyghan Company
- Project manager and system analyst at Golestan Co., Golestan St, Tehran, Iran**
- Designed and analyzed of an ERP for marketing, selling and accounting with PowerDesigner, Delphi, and MS SQL Server
- Software Developer and Analyst at Samen-Samaneh Co, Golestan St, Tehran, Iran**
- Developed several website with asp and MS SQL Server including Frequency License Issuing website
- Developer at DSSSolution Co, Vanak, Tehran, Iran (a branch of an American company)**
- Ongoing work of Developing of a Decision Support System software with VC++ and MS SQL Server

## PUBLICATIONS

- R. Rahaeimehr**, C. Jin, H. Maleki, P. H. Nguyen, and M. van Dijk, "The Third Strategy Toward a Secure Supply Chain Management Scheme", Submitting process.
- K. Hogan, H. Maleki, **R. Rahaeimehr**, R. Canetti, M. van Dijk, M., J. Hennessey, M. Varia, and H. Zhang, "On the Universally Composable Security of OpenStack", Cryptology ePrint Archive, Report 2018/602. [http:// ePrint.iacr.org/](http://ePrint.iacr.org/). 2018. (Three first authors share the first authorship)
- M. van Dijk, C. Jin, H. Maleki, P.H. Nguyen, and **R. Rahaeimehr**, "Weak-Unforgeable Tags for Secure Supply Management", 22nd International Conference on Financial Cryptography and Data Security (FC 2018). (Acceptance rate: 26%, authors are ordered in alphabetical order)
- H. Maleki, **R. Rahaeimehr**, and M. van Dijk, "SoK: A Survey of Clone Detection Approaches in RFID-based Supply Chains", Workshop on Attacks and Solutions in Hardware Security (ASHES 2017, co-located with CCS 2017). (Acceptance rate: 30%)
- H. Maleki, **R. Rahaeimehr**, Ch. Jin, and M. Dijk, "New Clone-detection Approach for RFID-based supply chain", IEEE International Symposium on Hardware Oriented Security and Trust (HOST'17).
- H. Maleki, **R. Rahaeimehr**, and M. van Dijk, "LightSource: Ultra Lightweight Clone Detection of RFID Tags from Software Unclonable Responses", IACR Cryptology ePrint Archive 2016, 608 (2016).
- R. Rahaeimehr**, A. Abdulahzadeh, " Fuzzy Transaction deadlock handling", 10'th Int'l CSIC'05, 2005. (Acceptance Rate: 28%)

## RESEARCH INTRESTS

Cloud Computing: Security and Architecture  
Distributed Systems  
Software Systems Analysis and Optimization

## HONORS

2011	Shariaty University outstanding instructor award
2001	Ranked 30th out of 91 in ACM-Asia algorithm programming
2000	Ranked 11th out of 82 in ACM-Asia algorithm programming
1999	Ranked 21th out of 78 in ACM-Asia algorithm programming

## VOLUNTEER

Aug'12	Member of Varzeghan earthquake rescue team
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## Extra Information

Name at Birth:	Reza Rahaeimehr
Place of Birth:	Tehran, Iran
Dual Citizenship:	N/A
Military History:	Nothing
High School:	Ferdosi high School, Shariaty Street, Tabriz, Iran 1992-1996