

REZA FATHI

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EDUCATION

University of Houston, Houston, TX

Pursuing Doctoral Degree in Computer Science | Expected May 2017 | GPA: 3.67/4.0
Adviser: Professor Gopal Pandurangan

Iran University of Science and Technology, Tehran, Iran

Master of Science in Computer Engineering (Software) | Jun 2011 | GPA: 3.36/4.0

Birjand University, Birjand, Iran

Bachelor of Science in Computer Engineering (Software) | Jun 2007 | GPA: 3.1/4.0

PUBLICATION

- **Reza Fathi**, Mohsen Amini Salehi, and Ernst L. Leiss. User-Friendly and Secure Architecture (UFSA) for Authentication of Cloud Services. In Proceedings of the 8th IEEE International Conference on Cloud Computing (CLOUD), June 2015. DOI 10.1109/CLOUD.2015.75.
- Morteza Mehrnoush, **Reza Fathi**, Vahid T. Vakili , Proactive spectrum handoff protocol for cognitive radio ad hoc network and analytical evaluation. The International Journal of the IET Communications, pp. 1–8, 2015. doi: 10.1049/iet-com.2015.0010.
- **Reza Fathi** and M. Abdollahi Azgomi, Implementation of a Symbolic State Space Generator for SDES Descriptions in PDETool Framework. The 17th Annual National CSI Computer Conference (CSICC'12), Sharif University of Technology, Tehran, Iran, March 6-8, 2012. (Best Paper Award)
- Morteza Mehrnoush, **Reza Fathi**, Vahid T. Vakili , A Distributed Spectrum Handoff MSRV protocol for the Cognitive Radio Ad hoc Networks. The Journal of Wireless Networks , Springer, (Submitted).

GRADUATE COURSES

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|--------------------------------|-------------------------------|-------------------------|
| • Data Structures & Algorithms | • Machine Learning | • Languages & Compilers |
| • Big Data Analytics | • Advanced Numerical Analysis | • Computer Networks |

SKILLS

Languages:	Java (expert), C/C++ (advanced), Python (beginner), Scala (beginner), C#.Net (beginner), JavaScript SQL, JSP, HTML, PHP
Databases:	Oracle (advanced), *SQL (advanced)
Tools & Frameworks:	Eclipse, Oracle SQL Developer, EMS SQL manager, Power designer, Primavera, MATLAB, MapReduce, Hadoop, Spark
Operating Systems:	UNIX /Linux, Windows
Network Systems:	TCP/IP, HTTP, SOAP, LAN, WAN, Ethernet, and Internet
Technologies:	JEE, Hibernate, Struts, Spring

WORK EXPERIENCE

University of Houston, Houston, TX, Jan 2014-Present

Teaching Assistant (TA)

- Instructed and supported 120 students and graded assignments of the Algorithm and Data Structures course
- Served as the Lead TA within a group of four other graduate level TAs
- Graded assignments and supported 30 students while they took a Web Security course
- Graded assignments and supported 50 students while they took an Introduction to Automata & Computability course

Raydana Engineering Company, Tehran, Iran, Apr. 2010-Dec. 2013

Developer, Module manager, and a member of R&D team

Reduced almost 50% the number of bugs reported from the customers by applying better test cases, code review, and etc.

- Leading Software Team of the Financial Management Module
- Doing research in order to find solutions to the new challenges of the company in developing its system to adapt to customers' requirements.

SelakTeb Company, Tehran, Iran, Sep. 2009-Mar. 2010

Requirement analyzer and developer

- Implemented a HRM system based on requirement analysis
- Implemented Reports using Data Report

University of Birjand, Birjand, Iran, Sep. 2005 - May 2006

Teaching Assistant

- *Taught 8 Students at Data Structure Course, spring 2006*
- *Taught 20 Students at Computer Programming Course, fall 2005.*

PRESENTATION

- User-Friendly and Secure Architecture (UFSA) for Authentication of Cloud Services. In Proceedings of the 8th IEEE International Conference on Cloud Computing (CLOUD), New York, June 2015.
- Facilitate authentication process using multi-factor implicit and explicit authentication methods in the clouds, In Research Methods in Computer Science Class, University of Houston, 2014.
- Virtual Memory Management, In Algorithm Design and Data Structures Class, University of Houston, 2014.
- Test-Driven Development (TDD), methodologies and guidelines, presented to developers and R&D team as a solution to the software stability problem, Raydana Engineering Company, Tehran, Iran, 2012.
- Implementation of a Symbolic State Space Generator for SDES Descriptions using ROBDD in PDETool Framework, 17th Computer Society of Iran(CSI) Computer Conference, Tehran, Iran, 2012.
- Web services' architectures scalability, Master's Seminar presentation, School of Computer Engineering, Iran University of Science and Technology, Tehran, Iran, 2009.

ACADEMIC ACTIVITIES

- A member of **Graduate Student Association** for Department of Computer Science, University of Houston (CS-GSA), Dec. 2014 – present.
- IT officer of the **International Student Organization** at the University of Houston, Jan. 2015 – present.
- Lab member of the **Performance and Dependability research Lab**, Tehran, Iran, 2008-2013
Supervisors: Prof. M. A. Azgomi, Iran University of Science and Technology
- Secretary of **department's student scientific council** at University of Birjand, Birjand, Iran, 2005-2006
Holding scientific and educational meetings, publishing council's annual magazine, and etc.