

# Mahdi Naser-Moghadasi

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## CONTACT INFORMATION

*Homepage:*  
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## RESEARCH EXPERIENCE

- Work in several projects to optimize profit, analysis data, extra information with varieties of algorithms including: Information Retrieval, Data Analysis, Machine Learning, Reinforcement Learning, Data Mining , Web Crawler Design, Social Graph, Search Engine.
- Familiar with data mining, machine learning, data analysis tools and APIs such as: MATLAB plugins, Weka, R, Hadoop, Apache Lucene, Apache Nutch, Apache Solr.

## EDUCATION

M.Sc. in Computer Science,  
The Texas Tech University  
Computer Science Department, August 2010

- Thesis Topic: A RECURSIVE POINT BASED FILTER FOR THE INCREMENTAL PRUNING ALGORITHM
- Advisor: Professor Larry D.Pyeatt
- GPA : 3.571.

B.Sc. in Computer Engineering,  
The Qazvin Azad University  
Electrical and Computer Engineering, June 2007

- *Valedictorian Student*, With Honors in Software Engineering
- Thesis Topic : Evaluating Learning Automata in Biped Soccer Robot.
- GPA : 17.72 out 20.

## HONORS AND AWARDS

- Competitive University Scholarship from the University of Texas Tech, 2009 - 2010
- Competitive University Scholarship from the University of Texas Tech, 2008 - 2009
- Valedictorian Student among more than 150 students, Qazvin, IRAN.
- Top Rank Student ( 1th place), Spring 2004, Qazvin, IRAN.
- Top Rank Student ( 2th place), Fall 2004, Qazvin, IRAN.
- Selected Top Research Student in Artificial Intelligence and Robotic Systems Nov 2006.
- Selected for the Azad University. Artificial Intelligence (AI) M.Sc. Entrance without the Nationwide exam, 2007.
- Received full travel grant from Azad University to participate several Robocup competitions in 2006, 2007
- Rank 7th among more than 32 teams participated in the international Robocup 2006 Competition, 2006, Germany. The Robocup International competition

## PROFESSIONAL CAREER

**Capital One Financial Corporation**, Plano, TX USA.

*Senior Software Developer*

- I joined the Capital One Financial Corporation as a senior software developer and my main objective is to work on different technologies that prevent identity theft and help to have a robust web site available to the customers. We are continuously monitoring user log files in site catalyst to observe any abnormal behavior. My next research is to use Data-Mining methods to run on top of a Apache Hadoop framework to apply the intrusion detection algorithm. **February 2015 to Present**

### **Jobs At My Resume**

#### *CO-Founder*

- I am the CO-Fonder of the **Jobs At My Resume**. A website for people who are looking for jobs in IT. Unlike other major job finder sites that needed users to enter the job title, **Jobs At My Resume** parses user's resume intelligently and presents only jobs that match to the each user. We are working with Hadoop framework to develop an online data processing approach in our internal web crawler developed using Apache Nutch. **September 2013 to Present**

### **American Airline**, Fort Worth, TX USA.

#### *Software Developer*

- I joined American Airline - Revenue Management team as a senior software developer and work on various projects that boost revenue of the AA; including tools that make analyst to process millions of fares instantly. Some technologies used in these projects included Hadoop-Map/Reduce, Memory ORM etc. **September 2011 to December 2014**

### **SpinSci Technologies, LLC**, Irving, TX USA.

#### *Software Developer*

- My responsibility in SpinSci was, as a software engineer to develop Interactive Voice Response applications for different clients such as Greyhound bus services, CUNA Mutual Group, Safeway pharmacy stores. In SpinSci, I used various new technologies to improve self service IVR products using intelligent agent methods. I also joined software architecture team for a new Web 2.0 web portal design that used customized gadgets items for users intelligently. I developed a predicative model that was installed on top of a recommender engine to select customized items based on each user history pattern. **August 2010 to August 2011**

## ACADEMIC EXPERIENCE

### **The Texas Tech University**, Lubbock, TX USA.

#### *Teacher Assistant*

- Introduction to computer architecture. **Summer Semester 2010.**
- Logic for computer science. **Summer Semester 2010.**

#### *Research Assistant*

- Researcher in the web mining Lab at the Texas Tech University. Working on the topical web crawlers and search engines and developed an alternate web crawler using the genetic programming. As a second part of my research, I was working on Web 2.0 recommender engine in market based web-pages and architect a MDP recommender system to increase total sales of a virtual firm. **May 2010 to August 2010**
- Researcher in the AI and Robotic Lab at the Texas Tech University. Working on the NAO middle size robot and developing an independent platform application for using the WEBOTS in the conjunction with the MATLAB to generate gait for the robot. **September 2008 to May 2010**

**The Qazvin Azad University**, Qazvin, IRAN.

*Research Assistant*

- Researcher in the Mechatronics Research Laboratory (MRL), Qazvin Azad University. Senior team member in the international Robocup competition. Responsible for training junior members and evaluate machine learning algorithms in the soccer robot simulator. **September 2006 to May 2008**

CONFERENCE  
PUBLICATIONS

- Eddy C. Borera, Larry D. Pyeatt, Arisoa S. Randrianasolo and *Mahdi Naser-Moghadasi*, POMDP Filter: Pruning POMDP Value Functions with the Kaczmarz Iterative Method, MICAI (1) 2010: 254-265.
- *Mahdi Naser-Moghadasi*, A New Graphical Recursive Pruning Method for the Incremental Pruning Algorithm. MICAI (1) 2010: 232-242.
- *Mahdi Naser-Moghadasi*, A New Pruning Method for Incremental Pruning Algorithm Using a Sweeping Scan-Line through the Belief Space. MICAI (1) 2010: 243-253.
- *Mahdi Naser-Moghadasi*, Abolfazl Toroghi-Haghighat, Saeed Shiry-Ghidary, EVALUATING MARKOV DECISION PROCESS AS A MODEL FOR DECISION MAKING UNDER UNCERTAINTY ENVIRONMENT Proceedings of the Sixth International Conference on Machine Learning and Cybernetics, pp. 2446-2450, Hong Kong, 19-22 August 2007.
- Reza Tabein, Alireza Khoshbarforousha, *Mahdi Naser Moghadasi*. "BROKER-BASED WEB SERVICE SELECTION USING LEARNING AUTOMATA". Proceedings of 5th International Conference on Service Systems and Service Management (IC-SSSM' 08), Melbourne, Australia, June-July 2008. pp. 345-350.
- Mahmood Rahmani, S.Mohammad H.S.Javadi, Ashkan Ferdowsi, *Mahdi Naser-Moghadasi*, Siavash Aslani, Nima Shafii, "MRL3D RoboCup Team Description Paper", Germany, 2006.

JOURNAL

- *Mahdi Naser-Moghadasi*. Evaluating Effects of Two Alternative Filters for the Incremental Pruning Algorithm on Quality of POMDP Exact Solutions. International Journal of Intelligence Science. January 2012.

BOOK

- *Mahdi Naser-Moghadasi*, The Incremental Pruning Filters for POMDPs - Past Present Future. Available on [Amazon](#), [Barnes and Noble](#) and other major book stores.

RELEVANT  
COURSES

- AI and Probabilistic Robotic (Fall 2008)
- Autonomous Robotic (Spring 2009)
- Reinforcement Learning (Fall 2009)
- Artificial Neural Network (Spring 2005)
- Data Mining - Individual Study ( May 2010)
- Search Engine - Individual Study (May 2010)

TECHNICAL SKILLS

- Programming: Proficient in Pascal, C, C++, C Sharp, Java, HTML, JQuery, Batch Script.
- Robotic Simulators and Applications: Webots, RCSServer, NaoQi.
- Development Environments: L<sup>A</sup>T<sub>E</sub>X, Microsoft Visual Studio .Net, Netbean, Eclipse, Unified Call Studio.
- Software Testing:Familiar with JUnit , Abbot, Cobertura, FIND-Bugs.
- Application and Web Servers : Tomcat Server, Websphere.
- Operating Systems: Unix/Linux, MS-DOS, Windows 98, 2008, XP,Vista, 7.