

# *Arash Jalal Zadeh Fard*

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## *Objective*

- Summer Internship

## *Summary of Qualifications*

- +5 years of experience in administration of Computer Networks and Cluster Systems
- Proven skills in designing and implementing Computer Programs in C and Java
- Good knowledge of designing, installing and using database systems
- Good knowledge of Software Engineering and UML design
- Implemented some projects using Matlab and R programming environment

## *Education*

PhD program in Computer Science, Expected 2013  
The University of Georgia, Athens, GA

Master of Science in Electronic Engineering, 2000  
Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran  
Thesis: Parallel Processing System Using Pentium Computers

Bachelor of Science in Electronic Engineering, 1994  
Iran University of Science and Technology (IUST), Tehran, Iran  
Thesis: Design and implementing a Printer Buffer using 8031 microcontroller

## *Skills*

- Programming languages: C, C++, Java, Scala
- Operational software: Matlab, R, Maple, MPI library, Weka (machine learning), Netica (Bayesian Network), Protégé (Ontology)
- Relational DBMS: MySQL

## *Professional Experience*

**LSDIS Lab, Department of Computer Science, The University of Georgia**  
Researcher

Athens, GA, USA  
August 2011 – Present

- Joined to LSDIS (Large Scale Distributed Information Systems) lab To collaborate with newly formed Cloud Computing research group.
- Studies about Semantic Web

**Complex Carbohydrate Research Center (CCRC), The University of Georgia**  
Research Assistant

Athens, GA, USA  
January 2012 – Present

- Working with a team of professionals to create an API for some ontologies.

**Drake Lab, Odum School of Ecology, The University of Georgia**  
Cluster Administrator and Researcher

Athens, GA, USA  
May 2009 – December 2011

- Administration of a Cluster System which has 176 processing elements and utilizes Torque job manager
- Scientific programming in Matlab and R environments, or using MPI library in C language mainly for running on the existent Cluster System
- Research project on classification of invasive weeds in the North America using Machine Learning techniques

**THINC Lab, Department of Computer Science, The University of Georgia**

Researcher

Athens, GA, USA

July 2010 – August 2011

- Studies on Decision Making Under Uncertainty for single-agent and multi-agent systems.
- Developed MAID-Solver v1.0 program which implements MAID (Multi Agent Influence Diagram) algorithm.
- It is written in Java and includes implementation of classes related to graph theory; however, Netica's API is used to deal with Bayesian Networks. Gambit program is used as the computing engine of the package to find equilibrium of a multi-agent game. It is released on the wiki-page of THINC Lab under Affero GNU public license v3.0.

**High Performance Computing Research Center, Amirkabir University of Technology**

Researcher

Tehran, Iran

June 2000 – December 2008

- Studied different aspects of Cluster Computing such as Parallel I/O and Workload Management.
- Integrating some Linux-Cluster systems from scratch.
- Developing some scientific parallel programs using MPI library in C and C++.

**Mahab Ghodss Consulting Engineers Company**

Network Administrator

Tehran, Iran

September 2000 – December 2008

- Installed, configured and maintained Computer Network Devices such as switches, routers, and wireless access-points, and Network Services such as Windows Active Directory, DHCP, and DNS
- Managed a LAN with more than 1000 nodes, distributed among various buildings
- Contributed to the Management Information System of the company

**Honor**

The 21st Khwarizmi International Award, 2nd Winner-Applied Research, for applied research on Cluster Computing, Iran, Feb. 2008

**Publication**

- M. Movafegh, J. Jabbari, **A. Jalal Zadeh Fard**, A. Farahani, F. Keshavarz, P. Mobarak Farkhondeh, B. Yadegari, "*Implementation of an electronic Portal for projects and its effect on Project Management and Knowledge Management*", presented in the 6th International Industrial Engineering Conference, Tehran, Iran, February 2009.
- M. Movafegh, **A. Jalal Zadeh Fard**, A. Farahani, F. Keshavarz, P. Mobarak Farkhondeh, B. Yadegari, "*Implementing an Information System for allocation of project resources in Mahab-Ghodss Company*", presented in the 6th International Management Conference, Tehran, Iran, December 2008.
- M. Movafegh, P. Mobarak Farkhondeh, **A. Jalal Zadeh Fard**, F. Keshavarz, A. Farahani, B. Yadegari, "*Key factors in the successful implementation of an integrated Management Information System in an organization*", presented in the 1st Conference on Information Technology Project Management, Tehran, Iran, June 2008.
- **Arash Jalalzadeh Fard**, Peyman Mobarak Farkhondeh, Bahman Javadi, S. Ahmad Motamedi, "*Design and Implementation of a Commodity Cluster to Speedup Processing on Satellite Images*", 2nd IEEE-GCC 2004 Conference, Manama, Kingdom of Bahrain, November 2004.
- **Arash Jalalzadeh Fard**, Bahman Javadi, S. Ahmad Motamedi, "*Cluster-based Parallel Processing System with Flexible Topology*", 9th Annual CSI Computer Conference (CSICC 2004), Sharif University of Technology, Tehran, Iran, February 2004.
- **Arash Jalalzadeh Fard**, Bahman Javadi, S. Ahmad Motamedi, "*Parallel Processing System with Pentium Processors*", 3rd Iranian Student Conference on Computer Science and Engineering, Amirkabir University of Technology, May 2000.