

Arya Mazaheri

Personal Information

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Education

Technical University of Darmstadt PhD in Computer Science
Thesis: Auto-Tuning Framework for Accelerating Deep Learning Applications 2015 - Present

Isfahan University of Technology (IUT) Master of Science in Computer Architecture
Thesis: Detecting Parallel Patterns in Shared Memory Applications 2012 - 2014
Pursued at **RWTH Aachen University** under supervision of Dr. Ali Jannesari
GPA: 18.11/20

Isfahan University of Technology (IUT) Bachelor of Science in Computer Engineering, Major in Software Engineering, 2008 - 2012
Department of Electrical And Computer Engineering,
Isfahan, Iran
GPA: 16.96/20

Alborz High School High School Diploma in Mathematics and Physics 2003-2007
Isfahan, Iran
GPA: 18.49/20

Research Interest Compiler Design — Performance Auto-Tuning — Deep Learning

Selected Publications

Arya Mazaheri, Ali Jannesari, Felix Wolf “*Pinpointing Data Locality Issues through Communication Distance Analysis*”, 32nd IEEE International Parallel & Distributed Processing Symposium, IPDPS’18, (Submitted)

Arya Mazaheri, Ali Jannesari, Abdolreza Mirzaei, Felix Wolf “*Characterizing Loop-level Communication Patterns in Shared Memory Applications*”, 44th International Conference on Parallel Processing, ICPP 15

E. Haghshenas, A. Mazaheri, A. Gholipour and M. Tavakoli, “*An Intelligent Method For Customizable Adaptive Learning Content Generation*”, International Journal of Information & Communication Technology (IJICT), 2011

Arya Mazaheri, Nima Rafiee, Pejman Khadivi, “*Location Based Targeted Advertising Using Bayesian Network And Fuzzy TOPSIS*”, International Symposium of Communications, IST’2010, 2010

Work Experience

Exabyte.io Software Developer
San Francisco Bay Area Jan 2016 - Oct 2016
- Responsible for developing and extending job orchestration framework
- Developing a modular framework for extracting high level characteristics of materials
- Extending material discovery features in the web application

Persian High Performance Computing Co-Founder
Isfahan, Iran 2014 - 2015
- Running Phoenix Supercomputer based on AWS cloud computing platform

SheikhBahayi NHPCC Research Assistant
Isfahan, Iran 2010 - 2014
- Contributing in National Cluster Computing (SheikhBahayi Cluster) setup.
- Configuring the Infiniband infrastructure network and Lustre file system for storage server.

SarvNet Telecommunications Inc. Software Design Engineer Intern
Isfahan, Iran 2011 - 2013
- Explore and modification of NetFPGA kernel source code
- Contributing in designing a production site switch and router

Awards and Honors	<ul style="list-style-type: none"> - Won the TEDx Kish prize for high-tech innovative entrepreneurship, 2015 - Ranked 1st in the computer architecture M.Sc students, class 2012 - Ranked 2nd in the 4th Entrepreneurship business plan festival, Iran, 2012 - Honorary admission for graduate study in Amirkabir and IUT universities - Ranked 9th at the ACM-ICPC Regional Contest in West Asia, Tehran site, Sharif University, Tehran, Iran, 2009 	
Professional Skills	Programming Languages: C/C++, Python, Julia Web Programming: Node.js, Django Framework, Meteor.js, Javascript DBMS: MySQL, PostgreSQL, MongoDB Tools & Libraries: LLVM, OpenMP, MPI, OpenCL, CUDA, Docker, Saltstack Software Development: Git, Atlassian JIRA Operating Systems: MAC OSX, Linux, Windows	
Personal Qualities	<ul style="list-style-type: none"> - Very passionate about acquiring new skills - Quick learner - Ability to work independently as well as in group environments - Being able to participate in multi-disciplinary projects 	
Language	Persian: Native English: Full professional proficiency German: Limited working proficiency	
References	Ali Jannesari Electrical Engineering and Computer Science Department University of California, Berkeley <i>Email:</i> jannesari@eecs.berkeley.edu	Dr.-Ing.
	Felix Wolf Computer Science Department Technical University of Darmstadt <i>Email:</i> wolf@cs.tu-darmstadt.de	Prof. Dr. Head of Parallel Programming Group
	Hossein Saidi Isfahan University of Technology Electrical and Computer Engineering Department Communications and Electronics <i>Web:</i> http://hsaidi.iut.ac.ir/ <i>Email:</i> hsaidi@cc.iut.ac.ir	Associate Professor