

M. AMIR MOULAVI

CONTACT

INFORMATION

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EDUCATION

MSc, **Kungliga Tekniska Högskolan (KTH)**, Stockholm, Sweden

Software Engineering of Distributed Systems, (Sep. 2008 - present)

BSc, **Azad University of Mashhad (IAUM)**, Mashhad, Iran

Software Engineering, (Sep. 2002 - Aug. 2006)

- Thesis: *Agent-based Distributed Resource Management for Large Scale Grid Computing Systems*
- GPA: Overall: (3.63/4)

GOAL

Undertaking *enterprise/research* projects that require *creative* and *problem solving* team members.

PROFILE

I am a *motivated self-starter, proactive, flexible* and *hard-working* engineer that is able to learn new technical skills quickly. I am *trustworthy* and have good sense of responsibility and continuously improve my work efficiency. My teammates, see me as an *open* and *active* team player who is able to work in an extremely fast pace and handle emergent issues.

PROFESSIONAL EXPERIENCES

2009 dec. - present

- Core Architecture/Server side Developer, **Squace Mobile Solution AB**, Stockholm, Sweden
 - **Squace:** Technology-wise Squace is a server-based solution with extremely thin native clients for Iphone, Android, Java, etc. I am developing in the server side core.

2005-2008

- Researcher & Developer / Consultant / System Engineer, **Ferdowsi University of Mashhad**, Information Technology Services (ITS) Center, Mashhad, Iran
 - **Ferdux:** (FERDowsi University linux), researched and customized the linux distribution of the campus, worked on its wide-scale automatic installation and configuration.
 - **Simorgh Cluster:** researched, set up and maintained a HPC linux cluster.
 - **Internet Kiosk:** a light version of Ferdux for internet kiosk at the university campus.
 - **Traffic Shaper:** researched and set up an open source bandwidth management and traffic shaper for the university campus.
 - **Inter-Grid:** designed a super scheduler job submitter for Simorgh cluster and Mathematical department.
 - **Expert System:** designed and implemented a course advisor expert system using fuzzy inference engine.

2006

- Technical Architect, Rajman Company, **IT & Science Park of Mashhad**
 - designed and brainstormed a collaboration suit for governmental organizations.

2005-2006

- Teaching Assistant
 - Data Structures and Algorithms in C++, **Islamic Azad University of Mashhad**, Mashhad, Iran

- Database Management System Laboratory, **Islamic Azad University of Mashhad**, Mashhad, Iran
- Concurrent Programming, **Imam Reza University**, Mashhad, Iran

2004-2005

- Developer/Consultant, **ICT department of municipal of Mashhad**, Iran
 - designed and implemented an online job searching portal.

PUBLICATIONS

Please refer to: <http://amirmoulavi.com/publications.html>

HONORS, MEMBERSHIPS, PROFESSIONAL ACTIVITIES

Honors during four years of study as a BSc student:

- **Senior Researcher**, Networking Department, Ferdowsi University of Mashhad (*june 2005 - september 2008*)
- **Founder**, *High Performance Computing Center (HPCC)*, Information Technology Services (ITS) Center, Ferdowsi University of Mashhad (*2005*)
- **Director**, *Computer Students' Scientific Committee (CSSC)* Research Section, Computer Engineering Department and IT Department, Islamic Azad University of Mashhad (*Sep. 2004 - Sep. 2006*).
- **Chair**, *IEEE Student Club*, Islamic Azad University of Mashhad (*Nov. 2005 - Nov. 2006*).
- Awarded as an *Outstanding* BSc Student, Computer Engineering Department, Islamic Azad University of Mashhad, Mashhad, Iran, (*2006*).
- *Top %2* of Accepted Students in University Entrance Examination (**UEE**) for BSc Degree, Mashhad, Iran. (*2002*).
- Renowned Member of *Young Researchers Club*, Islamic Azad University of Mashhad. (*2005-2008*)

Selected memberships:

- Member of Young Iranian Elites Association, (*2007-present*)
- Student member of **IEEE**, **Computer Society** (*2005-present*)
- Student member of **ACM**, Honory Membership (*2005-present*)
- Renowned Member of **Young Researchers Club**, Islamic Azad University of Mashhad (*2005-present*)

Professional Activities (Member of Technical Program Committee (TPC), External Reviewer, Executive Member):

- please refer to: <http://amirmoulavi.com/professional.html>

SEMINARS/TALKS

Seminars/Workshop I had at Ferdowsi and Islamic Azad universities:

- F. Behnia, M. A. Moulavi, *Workshop on Introduction to Ferdux GNU/Linux*, 3rd Information and Knowledge Technology (IKT' 2007) Conference, Ferdowsi University of Mashhad, Iran (*Nov. 2007*).
- *Seminar on Ibis: A Java-Centric Programming Environment for Computational Grids*, Grid Computing Course, PhD Course, Ferdowsi University of Mashhad (*Jan. 2007*).
- *Seminar on Consistency and Replication in Distributed System*, Distributed System Course, Azad University of Mashhad (*Jun. 2006*).
- *Seminar on Efficient Java-based Grid Programming*, Distributed System Course, Azad University of Mashhad (*Jun. 2006*).
- *Seminar on Introduction to Linux programming*, Azad University of Mashhad (*Jan. 2006*).
- *Speech on Grid Computing and its Application in Scientific Computations*, presented in conjunction with research week seminars, Young Researchers Club of Islamic Azad University, Applied Science Department (*Dec. 2005*) (invited talk).
- *Seminar on BEOWULF: A Parallel Workstation System for Scientific Computations*, Ferdowsi University of Mashhad, High Performance Computing Center, (*Jul. 2005*).
- *Seminar on Fault Tolerance in Distributed Systems: Group Communication vs. Distributed Commit*, Azad University of Mashhad, (*May 2005*).

- *Workshop on SQL Server Administration*, Azad University of Mashhad, (*Apr. 2005*).

COMPUTER
SKILLS

Java and beyond:

- Java SE, Java ME, Networking (java.net, Applets, SNMP), Distributed Programming (RMI, IDL, JavaME), JAX-WS, JDBC, JPA, JavaMail, Java Message Service, GUI (AWT, SWT), JSP, JNDI, EJB, Servlets, JavaBeans.

Other programming languages:

- C/C++ (system programming), C# (console/web/windows programming), Python (system programming)(F^1), Erlang, Bash Scripting, MPI (Message Passing Interface), GTK+(F), ASP.NET(F), HTML, XML, XSLT, SQL.

Operating Systems:

- Linux
 - Desktop/Server: Debain, Slackware, Kubuntu/Ubuntu, Red Hat Enterprise, Fedora Core, Sabayon, Knoppix, Kuliux, MEPIS, PCLinuxOS, Puppy
 - Mobile Distros: OpenEZX, MontaVista
 - X Window System: KDE, Gnome, XFCE, Enlightenment 16/17, WindowMaker
- Microsoft Platform: Windows(98/2000/XP/Vista), Server(2000, 2003)
- BSD: FreeBSD
- Solaris: Solaris 10(F)

Tools:

- Cluster/Grid Tools: FAI(F), Cfengine(F), OSCAR
- Database: MySQL, SQL Server, Access, Sqlite
- Directory Service: LDAP (server & client)
- Documentation Tools: BibTeX/TeX/LaTeX, Lyx, Kile, OpenOffice Writer, OpenOffice Impress, Microsoft Word, Microsoft PowerPoint
- Grid Middlewares/Tools: GridBus, Globus, Condor, TORQUE Resource Manager, PBS, Maui Cluster Scheduler, Ganglia, Sun Grid Engine (SGE), GridSim
- IDEs: Eclipse, NetBeans, Kdevelop, Microsoft Visual Studio
- P2P Simulation: Kompics
- Parallel/Distributed/Grid Programming: LAM/MPI, MPICH, MPI-G2(F), PVM(F), OpenMPI, OpenMP, Jade, Ibis(F), Explicit Multi-Threading (XMT)(F), Universal Parallel C (UPC)(F), Alchemi(F)
- Productivity Tool: Freemind
- Programming tools: Subversion, git, JUnit(F)
- Services: Bind, Postfix Mail Agent, NFS Server, Samba Server, Apache, SSH, Traffic Control (TC), FTP
- Security: Snort, Nmap, TCPDump, Sploit (for testing exploits), IPTables, Kerberos
- Simulation: Arena
- Software Management: Task Juggler, Microsoft Project
- Supercomputer: Bluegene, DAS2
- Virtualization & Emulation: Virtual Box, VMware, Wine, Qemu

LANGUAGE
SKILLS

English: Fluent
Persian: Mother Tongue
Arabic: Upper Intermediate
Swedish: Learning at the moment

RESEARCH
INTEREST

Primary Research Interests:

- Grid Computing, Cloud Computing, HPC Computing, Distributed Systems and Algorithms, Multi Agent Systems

¹Familiar with this topic and some experiences