Technical C.V.

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Keywords: computer engineering, software development, RUP, UML, software architecture, Java, C++, C#, Web programming, web

application, enterprise architecture.

SUMMARY

A software/hardware engineer with experience on software development management, software/hardware analysis and design, programming, network management, and cluster computing. A Googler!

RELATED EDUCATION

Sharif University of Technology

2004 - 2009 Sep.

Ph.D., Networks, Avg 19.62 / 20

Sharif University of Technology

1998-2001

• M.Sc., Software Engineering, Avg 17.53 / 20

University of Tehran

1994-1998

• B.Sc., Hardware Engineering, Avg 17.2 / 20

$M \cap DV$	EXPERIENCE	
VVUJEE		

VORK EXPERIENCE	
Software Engineer at Google, Mountain View, California	2011-now
 Manager of HPC center of IPM with 17 members and 7 active academic projects 	2010-2011
 Initiating and managing the project of ERP system development for RIPI (SYP) and leading the 12 people team 	2004-2011
 Initiating and managing Parallel Computing Section at RIPI 	2009-now
 Optimization of business processes of computer department of RIPI according to ITIL guidelines 	2010
 Secretary of RIPI Software Council, consultant for software projects in oil industry defined at RIPI 	2009-2010
 Initiating the RIPI Engineering Software Development Team 	2009
 Internship at LMTS laboratory of EPFL University, Switzerland (2 months) 	2008
Research visit at KTH University (6 months)	2008
 Development of a comprehensive network simulator (Xmulator) 	2004-now
 Development of a commercial chat software (Glassroom) 	2000-2004
• Initiating the "New Technologies in Education and Research" office of IAUQ	2003
 Renovating the website of Research Institute of Petroleum Industry (RIPI) 	2004
• Coach of the first ACM programming contest team of Islamic Azad Uni. Of Qazvin	2002-2003
• Webmaster of Islamic Azad Uni. Of Qazvin. Starting the first website of the univ.	2000-2003
• Manager of technical committee of the first Iranian Mechatronics Conference	2003
 Development of an ECG software for Davinsa company (Tapesh Negar) 	1995-2000

TRAINING COURSES	
Software Development Using the RUP Methodology	2004
ASP.Net programming	2004
 Information Technology Infrastructure Library (ITIL) Foundation V3 	2010
(A combination of international good practices to provide IT services)	
Process Management	2010
(How to migrate your functional organization to a process-based organization)	
 Microsoft[®] Active Directory 	2010 Nov.

INTERESTS AND EXPERIENCES

- · Software design
- Internet and web programming
- Java programming
- Software architecture
- RUP software development process / UML
- System analysis and design / Performance evaluation
- System simulation
- Enterprise applications
- O/R Mapping
- Network systems
- Web design
- · Digital signal processing
- · Voice and sound processing
- Programming to control hardware
- Hibernate, NHibernate, Log4j, Log4net
- Developing multilayer distributed enterprise applications in C#.NET environment

SOFTWARE DEVELOPMENT ENVIRONMENTS

- Java® (more than 40,000 lines of code)
- C# (more than 80,000 lines of code)
- C and C++ (more than 20,000 lines of code)
- Visual C++ (more than 30,000 lines of code)
- ASP.NET
- PHP
- JSP
- HTML, and Javascript, Ajax
- ASP
- · Linux shell scripting
- J2EE®
- X86 and 68K assembly language
- Rational Rose
- VHDL

Microsoft[®] SharePoint[®]

PROJECTS

High Performance Computing Projects

2010-2011

As the manager of High Performance Computing Laboratory at Institute for Research in Fundamental Science (IPM), Iran, I participated several projects in the areas of parallel computing, GPU programing, CELL programming, and NoC simulation.

XMulator* 2004-now

It is a general object-oriented event-based simulation software, which is mainly developed to simulate Interconnection Networks and Wireless Networks. The package is used and extended by more than 20 students for their own research projects. The software is developed on a multi-layer architecture in C# language.

SYP ERP 2004-2011

It is an ERP system for RIPI. The software is developed based on the VONAS framework with a team of 12 members, which led by me for 5 years. This ERP has a distributed, service oriented, multilayered, and O/R mapped system. I was the sole architect of this software. The software is currently serves more than 1000 employees for their office work.

SENSA (Sensor Networks for Space Applications)

2008

It is a project defined at LMTS lab. of EPFL University, Switzerland as a part of European project E-Cube. In this project, a network of few wireless nodes is established and data from sensors are gathered and reported through a web interface.

A small Windows-based cluster for CFD simulation*

2009

It is a project to make an 8-node cluster. The nodes are HP D360 servers each with 8 processing cores. The cluster is separated from company LAN by a gateway supporting VPN access to the cluster nodes. The cluster is controlled by a Domain Controller and jobs are spawned by Microsoft HPC package.

VONAS framework* 2004-2005

It is a comprehensive framework for an Enterprise Resource Management (ERP) solution developed at RIPI. The framework contains different modules such as authentication, single sign on, navigation, data access, ...

2004 E-Voting software*

It is a web-based e-voting software developed for a local election at RIPI.

InterAcc* 2003

A Windows based RADIUS server (accomplished to module design state).

2003 Textile puncher project

It is a software project to control mechanical puncher used in textile companies. I contributed in the project as a software consultant.

GlassRoom chat software* 2000-2004

It is a comprehensive voice/text chat and conference software. The software is developed based on Java® Applet, Java® Servlet, and ActiveX® technologies. The package works on both Windows® and Linux operating systems.

Seda-Negar' 2000-2001

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^{*} I conducted these projects entirely.

It is a tool to generate dynamic and static spectrogram from a given sound record. This software is developed in VC++.

Bi-lingual conferencing and chat software*

2000

It is a web-based text chat application.

Farsi-English dictionary*

1998

It was also a dictionary for Amiga® Operating System.

Operator Channel Monitoring System

1997-1998

It is a project to design and implement a 30 channels audio board to record 30 voice channels concurrently. The board is plugged at the ISA slot and captures the samples using Direct Memory Access.

Amiga Negar* 1997-1998

It was a commercial package to add Persian language support to Amiga® Operating System.

Tapesh Negar* 1995-2000

This project started at 1995 in Davinsa medical equipment company. The goal of the project was to control treadmill and executing stress test. The final software is used at more than 70 hospitals and medical centers.

RELATED TAUGHT COURSES

Below, is the list of technical courses I taught at different universities.

- · Internet engineering
- · Web-based programming
- Introduction to internet
- · Design of algorithms
- System analysis and design
- Computer science basics
- · Software engineering
- · Advanced programming
- · Programming in C
- · Advanced topics : Java language
- · Advanced topics : Web design
- · Documentation of information systems