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Areas of Interest

- Web-Based Information Systems
- Distributed Systems and Cloud Computing
- Artificial Intelligence (Semantic Web)
- Software Engineering with SOA & SaaS approach
- Network Management and Security

Education

08/2009 – present

Master of Science in Computer Science (GPA: 4.0)
Department of Computer Science
North Dakota State University, Fargo, North Dakota
Advisor: Dr. Juan (Jen) Li

09/2002 – 08/2008

Bachelor of Science in Information Technology
Department of Computer Engineering and Information Technology
Amirkabir University of Technology, Tehran, Iran
GPA: 14.27 out of 20
Advisor: Dr. Mohammad Reza Razzazi

Final Thesis: "Semantic Web Services Search Engine" (20 out of 20)

Abstract: In my thesis, I have proposed a new approach for semantic web service retrieval, based on Vector Space Model ranking and semantic service indexing. Semantic service indexing uses OWLS technology to access semantic properties of web services. Service retrieval and ranking have been significantly improved using Vector Space Model in comparison to other algorithms used in other projects like OWLS-MX and Opossum search engine.

Publications and Presentations

Conference Papers:

- Juan li, Peyman Emamian, "**MobiTrust: Trust Management System in Mobile Social Computing**", Third IEEE International Symposium on Trust, Security and Privacy for Emerging Applications (TSP-10)(in progress)
- Omid Mola, Peyman Emamian, Mohammadreza Razzazi, "**A Vector Based Algorithm for Semantic Web Services Ranking**", IEEE 3rd International Conference on Information and Communication Technologies: from Theory to Application, Syria, 7-11 April, 2008 (ISBN: 978-1-4244-1751-3).
- Mohammadreza Razzazi, Peyman Emamian, Omid Mola, "**Semantic Web Services Search Engine**". (under progress)

Workshops presented:

- "**Student Workshop on Web Development Strategies and Tools**", Amirkabir University of Technology, CEIT Department, winter 2008 by Peyman Emamian.
- "**Student Workshop on Relational Database Development and Management**", Amirkabir University of Technology, CEIT Department, winter 2008 by Peyman Emamian.

Academic Activities

Selected Researches and Projects

- “Light Weight Health Application for Low End Cell Phones “, providing health-related service using low end devices and simple communications like SMS and Bluetooth, Aug 2010-present.
- “MobiSN”, Sep 2009-Jan 2010, Mobile Social Networking. Distributed short-range mobile social networking application in J2ME platform.
- “**Electronic Learning**”, May 2007, I have designed an electronic course, compatible with SCORM standard, using Macromedia Flash CS3 for my E-Learning course.
- “**Software Engineering**”, Jun. 2006-Sep. 2006, I have worked as a member of a software analysis team for a multipurpose auction software using UML based design.
- “**Web portals in E-Commerce**”, Apr. 2006 – Jun. 2006, Research about the role of web-portals in e-commerce enabled websites.
- “**Electronic Shop**”, Apr. 2006 – Jun. 2006, I have built an electronic shop website using AJAX technology on MySQL-PHP platform for my database lab project.
- “**Computer Graphics**”, Apr. 2006 - May. 2006, I have implemented a 3D soccer game using OpenGL library and implementation of AI players.
- “**Information Technology Strategic Planning**”, Mar. 2006 - May. 2006, I designed a 3-year plan for improvement of use of IT in my university, accepted by dean of department and university as the best plan.
- “**E-Banking and Electronic Money**”, Feb. 2006 - May 2006, Research under supervision of Dr. Boroujerdi.
- “**Database principles**”, May2004-Jun. 2004, Design and implementation of database system for "Online Student Programming Contest" like ACM/ICPC, using Power Designer and MySQL.
- “**Advanced Programming**”, Jun 2003-Sept. 2003, I designed and implemented a multiplayer strategic game (virtual world theme) using Borland C++ Builder.
- Member of Amirkabir University of Technology Team, The 2003 ACM-ICP world Regional Contest, Amirkabir University of Technology, Tehran, Iran, 2003.
- Member of organizational committee of 1st Information and Knowledge Technology Conference, Amirkabir University of Technology, Tehran, Iran, 2003.
- Reached first level of national Math and Computer Olympiad, 2001.

Qualifications

Test Scores

- TOEFL (iBT): 102 - (Reading:27, Listening:26, Speaking:22, Writing: 27)
- GRE (Oct. 2007): Quantitative (770), Verbal (330), Analytical Writing (3.0)
- GRE (Oct. 2008): Quantitative (800), Verbal (270), Analytical Writing (3.0)

Languages

- Persian(Farsi): native
- English: fluent
- Arabic: basic

Linux

- Fluent in Linux systems and Linux network administration, shell and system programming
- Proficient in Linux Database and Hosting administration
- Professional C++ and J2EE programming experience
- Familiar with Linux Visual Programming with QT-Designer
- Familiar with Perl and Python scripts, Proficient in shell scripting

Windows Programming

- Professional experience in VC++ .Net \ VC# .Net \ Borland C++ Builder programming
- Professional experience in J2EE development
- Familiar with ASP.NET Programming

- Academic experience with C# application development and testing.

Web Development

- Proficient in PHP, HTML, XHTML, CSS, AJAX, JavaScript
- Professional J2EE web application development experience (JSF, SEAM, EJB, JPA ...)
- Professional Adobe Dreamweaver website development
- Fluent in design, management and retrieval of XML Documents using XML Technologies like XSLT, XML Schema, ...
- Familiar with Flash design, Cold Fusion and Action Script
- Familiar with Python and Perl server side development
- Experiences in ASP.NET
- Professional experience with CakePHP framework.

Software Engineering

- professional experience in XP/SCRUM software development
- Professional Domain Driven Design experience and DSL development with OpenArchitectureWare (Xtext)
- Proficient in UML, RUP design and analysis
- Fluent in team development tools (SVN, JIRA, Hudson, Bugzilla...)
- Experience in Software Testing (JUnit, Acceptance, Web Application Testing using Selenium)

Database Design, Analysis and Management

- Proficient in MySQL DB, and PostgreSQL DB Management
- Skilled in Power Designer database design and development
- Professional experience in Oracle 10g design and management

Network and System Administration

- Professional experience in Windows and Linux systems and network administration
- Deep knowledge in networking technologies (Design and Administration)
- Fluent with Network & Security related softwares like WireShark(Ethereal), NS, nmap, Nessus, ...
- Professional experience in Web Server and Application Servers (Apache, Tomcat, JBoss, Glassfish ...)

Information Technology Skills

- Fluent in Analysis, Design, Management and Control of IT Projects (M.S. Project)
- Fluent in Information Systems related topics like ERP, CRM, MIS analysis, design and development
- Fluent in IT Strategic Planning
- Experience in Office Automation Planning
- Familiar with Organizational Behavior Management
- Professional Experience in Supply Chain Management (SCM) Design and Analysis

Memberships

- Member of IEEE and IEEE Computer Society (since 2009)

Teaching and Work Experiences

- **Pedigree Technologies (www.pedigreetechnologies.com), Fargo, ND (May 2010 – Jul 2011)**

Developer/Web Developer

Working as a member of development team, areas of development included Java based server side development on Spring platform and PHP (CakePHP) and JavaScript based UI development using JQuery framework for “OneView” product of Pedigree Technologies. Product involved database design and integration between all layers of application. For example, cloud-based equipment maintenance application that uses real-time monitoring and historical data of sensor-enabled equipment to schedule maintenance or trigger customized application for example supply requests, Or report generation engine using BIRT integration.

- **Department of Computer Science, NDSU, Fargo, ND (Sep 2009 – present)**

Research Assistant to Dr. Juan Li

Doing research in the area of Distributed Systems and Semantic Web under supervision of Dr. Juan (Jen) Li.

- **IT Orbit Co. (www.itorbit.net), member of [NAFIS](#) holding, Tehran, Iran (Nov. 2008 – Mar. 2009)**

Developer/Linux

Administrator

(full

time)

Member of SPL Team (Software Product Line). We use XP/SCRUM practices as our daily routines and developed “Orbitall” as a tool for company’s Software Product Line (SPL). It is based on J2EE technologies (JSF, JPA ...) and generates commercial web-based applications.

- **Jahad Daneshgahi Inst., Tehran, Iran (Aug. 2007 – Sep 2007)**

Web Development Tutor (part time)

E-Commerce Lecturer for mid-level managers (part time)

- **Data Processing Co. (DP), Tehran, Iran (summer 2006)**

Software Analyst / Programmer (Internship, full time)

Was assigned to analyze simulating software for modeling a kind of Telecommunication Switch (NEAX).

- **Iran Agricultural Commodity Exchange, Tehran, Iran (Feb. 2005 - Sep. 2005)**

Software Analyst (part time)

Worked as a team member, for software design and requirement engineering of an auction system for biggest agricultural commodity exchange in Iran (IRAN Agricultural Commodity Exchange).

- **Amirkabir University of Technology , Tehran, Iran (Jul. 2003- Jul. 2004)**

Network and Systems Administrator (part time)

The network consists of Linux and Windows servers running internet services, program development environment and so on.

Extracurricular Activities

- Sport: Swimming, Chess, Boxing, Ai Ki Do, and computer games.
- Reading: technical news, tricks and websites.
- Other hobbies: watching movies, playing computer games.

References

Available Upon Request