

Umar Qasim

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Objective To better facilitate student learning in the area of information system and technology.

Education

- 2005 - present **Ph.D. in Information Systems** (GPA 3.95/4.0)
New Jersey Institute of Technology, USA
Dissertation Topic: Active Caching for Recommender Systems (Expected Completion 2009)
- 2003 - 2004 **MS. in Information Systems** (GPA 3.83/4.0)
New Jersey Institute of Technology, USA
Thesis Title: Digital Libraries and Middleware Architecture
- 1997-1999 **MBA in Management Information System**
Hamdard University, Pakistan
Thesis Title: Library Automation, Opportunities and Challenges
- 1994-1997 **BS. in Computer Science**
Hamdard University, Pakistan
Recipient of Excellence Award

Teaching/Research Interests

Information Systems (Management, Evaluation)
Data Management (Databases, Data optimization, Data structure)
Application Development (Web/software development, Programming languages)
Knowledge Management (Information retrieval/extraction/filtering, Text/data Mining)
System Analysis and Design (Requirement engineering, Software engineering)
Information Collection (Digital libraries, Content management)

Software Skills

Programming languages: Visual Basic, C#, Java, C++, SQL, VBA
Databases: SQL Server, Oracle, My SQL, DB2, MDEX, MS Access, Visual FoxPro
Packages: Endeca Information Access Platform, SAS Business Intelligence, SPSS
Interactivity: Flash, Photoshop
Web/Internet: Dream weaver, FrontPage, ASP, NET, PHP, VB Script, Java Script, Html
Data Connectivity: ADO.NET, DAO, ODBC, COM, DCOM, MTS
Other: Visual Studio, Word, Excel, PowerPoint, Outlook, Acrobat

Experience

Teaching

- 1/09-05/09 **McMaster University, Canada**
Sessional Lecturer
Scheduled to teach Information Systems in Business to undergraduate students at DeGroot School of Business during Spring 2009 semester.
- 1/06-08/06 **New Jersey Institute of Technology, USA**
Teaching Assistant
Taught Evaluation of Computer Applications / Information System Evaluations in Spring and Summer semester at College of Computing Sciences
- 1/99-6/00 **University of Management & Technology, Pakistan**
Adjunct Professor
Taught Database Management, System Analysis & Design, Management Information Systems and Computer Applications to graduate and under-graduate students.

Research

- 10/08 - Present **McMaster University**, Canada
Mills Memorial Library
Digital Initiatives Research
As part of Digital Library group exploring various aspects of Endeca information access platform to be used in digital libraries. Also working on Business intelligence project being implemented in the library.
- 1/05-08/08 **National Science Foundation / National Science Digital Library Research Grant**
New Jersey Institute of Technology, USA
General Recommendation Engine(<http://gre.njit.edu>)
Research Assistant
The General Recommendation Engine (GRE) provides recommendations for the National Science Digital Library collections. GRE is developed by combining three next generation approaches to recommendations: collaborative-filtering, content-based and knowledge-based recommendations to craft the best set of links to related information. For this web-based application developed three recommendation engines using visual studio .net, c#, vb.net, visual C++, asp.net and SQL Server. Also developed and integrated NJIT library, DLESE, Econport and Teachers Domain demo websites with GRE.
- 1/04-12/04 **National Science Foundation / National Science Digital Library Research Grant**
New Jersey Institute of Technology, USA
Digital Library Service Integration(<http://is.njit.edu/dlsi>)
Research Assistant
The Digital Library Service Integration (DLSI) infrastructure provides a systematic approach for integrating digital library collections and services. Developed applications for lightweight integration between heterogeneous systems in digital libraries. Lightweight integration is achieved by the use of wrappers to identify similar concepts in diverse systems and provide information and services for these items of interest. Used Java and MySQL for implementation.

Industry

- 9/01-12/04 **Reason Technologies**, USA
Analyst Programmer
Architected and developed information systems for various client companies. Developed the Active Server Pages and COM components for these applications. Worked with Visual Basic, Visual InterDev, ADO, SQL Server, VB Script and JavaScript to build the software. Responsibilities included design, development and implementation of projects and leading a team of developers. Developed and implemented projects before the designated time in a tight schedule. Mentored the developer team, guiding them throughout the ongoing projects.
- 8/00-8/01 **SoftSource Inc.**, USA
Programmer / System Analyst
Worked on B2B application for SolutiaNet that provides intelligent business solutions to help analyze, optimize and organize businesses. Application contains information about business and industrial products and services, auction and exchange market, consulting services, educational courses, user training and technical support. This project required upfront planning, analysis, design and development. Developed web pages using ASP, VBScript, Microsoft Visual Interdev, whereas the back-end database work was done in SQL Server.
- 7/98-6/00 **University of Management & Technology**, Pakistan
Analyst Programmer
Responsible for the development of software applications for the internal departments of this organization. For Client/Server applications used Visual Basic and Microsoft Access. For 3-tier compliant software used Microsoft Transaction Server as a middle tier, SQL Server 7 as database and thin client user interface using ADO Object Model for Visual Basic 6. Involved in the total software life cycle from depicting business flow charts, data model, Entity-Event relationship, and developing business objects and coding for the same.
- 7/97-6/98 **Bata International**, Pakistan
Programmer
Designed and programmed custom software for Finance department. The system kept the information of all the payments from the retail stores and agencies through out Pakistan. This information was reconciled through biweekly statements. All the transactions in the Bank accounts and reconciliation with these accounts regarding stores and agencies were managed through this software. Skills included extensive Microsoft Access including extensive Visual Basic programming and subroutine design. Involved in all phases of System development life cycle.

Honors & Awards

- 1/05-8/08 National Science Foundation Research Grant, NJIT, Newark, NJ
Funding award for research as a PhD student
- 12/04 - Present Membership
Association of Information Systems
- 12/04 - Present Membership
The Sigma Chapter of the Alpha Epsilon Lambda Honor Society of Graduate and Professional Students at NJIT
- 8/99 Dean's award
For achievement during MBA degree
- 8/97 Excellence award
For outstanding performance in BS degree

Publications

Yi-fang Wu, Il Im, Todd Will, **Umar Qasim**, Michael Bieber, Vincent Oria. Poster Abstracts NSDL Annual Meeting 2007 Washington, DC November 6 – November 8, 2007

Yi-fang Wu, Il Im, Todd Will, **Umar Qasim**, Michael Bieber, Vincent Oria. Poster Abstracts NSDL Annual Meeting 2006 Washington, DC October 18 – October 20, 2006

Umar Qasim. *Digital Libraries and Middleware Architecture*. MS.IS Thesis. IS Department, New Jersey Institute of Technology, USA. December 2004.

Umar Qasim. Library Automation, Opportunities and Challenges. MBA Thesis. University of Management and Technology, Pakistan. August 1999.

Working Papers (to be submitted 2009)

Umar Qasim, Michael Houle, Vincent Oria. A 2D Active Cache Mechanism For Recommender Systems Based on a Relevant Set Correlation Mode

Michael Houle, **Umar Qasim**, Vincent Oria. Query containment for Ranked List Queries: A Heuristic Approach.

Umar Qasim, Vincent Oria. Locality of reference in recommender system query streams.

References

Dr. Vincent Oria (oria@homer.njit.edu)
PhD Dissertation Committee Chair / Associate Professor
Information Systems Department, College of Computing Sciences
New Jersey Institute of Technology
University Heights, Newark, NJ 07102, USA

Dr. Michael Bieber (bieber@njit.edu)
MS Thesis Advisor / Department Chair and Professor
Information Systems Department, College of Computing Sciences
New Jersey Institute of Technology
University Heights, Newark, NJ 07102, USA

Dr. Roxanne Hiltz (roxanne.hiltz@gmail.com)
Fulbright- University of Salzburg Distinguished Prof. of Communications and Media
Distinguished Professor Emerita /Former PhD Director & Department Chair
Information Systems Department, College of Computing Sciences
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