

Prateek Jain

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OBJECTIVE

To obtain a summer intern position utilizing my experience and skills in querying and analysis of linked open data cloud and spatial temporal thematic query processing.

EDUCATION

Wright State University, Dayton, OH

Ph.D. student, Computer Science (Advisor Dr.Amit P. Sheth)

June 2007 – Present

University of Georgia, Athens, GA

Ph.D. student, Computer Science (Advisor Dr.Amit P. Sheth)

August 2006 – May 2007

Dhirubhai Ambani Institute of Information & Communication Tech.

Gandhinagar, Gujarat, India

B.S. Information & Communication Technology

July 2002 – May 2006

RESEARCH (08/06–present)

Linked Open Data cloud (07/09- Present)

- **Enabling better query federation over the LOD cloud**

The objective is creation of new mechanisms for effective querying and retrieval of answers from the LOD cloud datasets. The mechanism allows users to effectively pose queries without knowing the exact structure and links between its many datasets. For this purpose an upper level ontology is utilized, which covers a major chunk of the LOD datasets. The ontology helps in federation of queries over the LOD cloud.

Query Re-writing for Spatial-Temporal-Thematic Data (09/08- Present)

- **Operators for querying spatial-temporal-thematic data**

Investigated and developed mappings of well known weather sensor datasets to datasets part of the LOD cloud. Further they were utilized to develop query operators to address mismatch between query constrains and knowledge base by harnessing partonomical relationships between spatial entities.

Semantic Sensor Web (06/07-06/08)

- **SAVig (Sensor Aided Vigilance)**

Extended sensor data representation languages, SensorML and TransducerML, to integrate semantic associations into sensor models and related querying.

Bioinformatics for Glycan Expression project (08/06-05/07)

- **SemBROWSER (Semantic Biological Web Services Registry)**

A UDDI based implementation of Web Services registry that uses ProPreO Ontology for publication, search and discovery of Web Services.

ADDITIONAL EXPERIENCE

Accenture Technology Labs

Research Intern, summer 2008

San Jose, CA

- Contributed in the development of RAT (Requirements Analysis Tool). RAT is currently in use within Accenture for analysis of software requirements.

- Explored and developed prototype for use of semantics in analysis of software requirements.

Reliance Infocomm

Navi Mumbai, India

Intern, summer 2004

- Developed J2ME based mobile applications for Reliance Infocomm. I won the national level mobile application development contest, and this internship was offered as a follow on to that.

Kno.e.sis, Wright State University

Dayton, OH

Research Assistant, June 2007- Present

- Research Assistant under Dr. Amit Sheth

LSDIS, University of Georgia

Athens, GA

Research Assistant, August 2006- May 2007

- Worked as Research Assistant under Dr. Amit Sheth

COMPUTER SKILLS

Programming Languages:	Java, Scheme, C, C#
Semantic Web Technologies:	RDF, OWL, SPARQL
Databases:	Oracle, MySQL, MS Access
Design Tools:	Rational Rose, MS Visio
Operating Systems:	Windows, Linux, Unix.
Web Technologies:	XML, HTML
Other:	J2ME

PROFESSIONAL ACTIVITIES

Program Committee Member

- Conference on Ontologies, Databases, and Applications of Semantics for Large Scale Information Systems 2010 (ODBASE 2010)
- Workshop On Linked Spatiotemporal Data 2010 (LSTD2010)
- Conference on Ontologies, Databases, and Applications of Semantics for Large Scale Information Systems 2009 (ODBASE 2009)
- International Conference on Geospatial Semantics 2009 (GEOS 2009)

External Reviewer

- OWL: Experiences and Directions (OWLED 2010)
- Journal of Web Semantics
- International Conference on Inductive Logic Programming (ILP 2010)
- The Future of the Web for Collaborative Science (FWCS 2010)
- Description Logics 2010 (DL 2010)
- Extended Semantic Web Conference 2010 (ESWC 2010)
- International Semantic Web Conference 2009 (ISWC 2009)
- Workshop on Semantic Multimedia Database Technologies 2009 (SEMUDATE 2009)
- International Conference on Conceptual Modeling 2009 (ER 2009)

Member W3C SPARQL Working Group

PUBLICATIONS

Conference Publications:

Prateek Jain, Pascal Hitzler, Peter Z. Yeh, Kunal Verma, and Amit P. Sheth, "[Linked Data Is Merely More Data](#)". In: Dan Brickley, Vinay K. Chaudhri, Harry Halpin, and Deborah McGuinness: Linked Data Meets Artificial Intelligence. Technical Report SS-10-07, AAAI Press, Menlo Park, California, 2010, pp. 82-86. ISBN 978-1-57735-461-1

Prateek Jain, Peter Yeh, Kunal Verma, Cory Henson, and Amit Sheth. "[SPARQL Query Re-writing Using Partonomy Based Transformation Rules](#)". In K. Janowicz, M. Raubal, and S. Levashkin, editors, Proceedings of the Third International Conference on GeoSpatial Semantics, December 3-4, 2009, Mexico City, Mexico, volume 5892/2009 of Lecture Notes in Computer Science, pages 140–158, Heidelberg, 2009. Springer Berlin.

Prateek Jain, Kunal Verma, Alex Kass, Reymonrod G. Vasquez, "[Automated Review of Natural Language Requirements Documents: Generating Useful Warnings with User-extensible Glossaries Driving a Simple State Machine](#)", In Kiran Deshpande, Pankaj Jalote and Sriram K. Rajamani editors, Proceedings of the Second India Software Engineering Conference, February 23-26, 2009, Pune, India, ACM, New York, NY, 37-46. DOI=<http://doi.acm.org/10.1145/1506216.1506224> (Acceptance Rate 10%).

Matthew Perry, Amit Sheth, Farshad Hakimpour, **Prateek Jain**. "[Supporting Complex Thematic, Spatial and Temporal Queries over Semantic Web Data](#)", In F. T. Fonseca, M. Andrea Rodriguez and S. Levashkin editors, Proceedings of the Second International Conference on GeoSpatial Semantics, December 3-4, 2009, Mexico City, Mexico, volume 4853/2007 of Lecture Notes in Computer Science, pages 228–246, Heidelberg, 2007. Springer Berlin.

Zakir Laliwala, **Prateek Jain**, Sanjay Chaudhary, "[Semantic based Service-Oriented Grid Architecture for Business Processes](#)", In Proceedings of the IEEE international Conference on Services Computing, September 18 - 22, 2006, Chicago, Illinois, USA, pp 423-430, IEEE Computer Society, Los Alamitos, CA, USA.

Zakir Laliwala, **Prateek Jain**, Vikram Sorathia and Sanjay Chaudhary, "[Integrating Stateful Services in Workflow](#)", In Proceedings of the XIII Asia Pacific Software Engineering Conference (December 06 - 08, 2006), Bangalore, India, pp 131-138, IEEE Computer Society, Washington, DC

Workshop Publications:

Prateek Jain, Peter Z. Yeh, Kunal Verma, Alex Kass, Amit P. Sheth, "[Enhancing process-adaptation capabilities with web-based corporate radar technologies](#)", In A. Duke, M. Hepp, K. Bontcheva and M. B. Vilain editors, Proceedings of the First international Workshop on ontology-Supported Business Intelligence, October 27 - 27, 2008, Karlsruhe, Germany, ACM, New York, NY, USA.

Cory Henson, Amit Sheth, **Prateek Jain**, Josh Pschorr, Terry Rapoch. "[Video on the Semantic Sensor Web](#)", W3C Video on the Web Workshop (December 12-13, 2007), San Jose, California and Brussels, Belgium

Book Chapters:

Asif Akram, Sanjay Chaudhary, **Prateek Jain**, Zakir Laliwala and Rob Allan, "[Grid Business Process:Case Study](#)", "[Securing Web Services: Practical Usage of Standards and Specifications](#)", Ed. Dr. Periorellis Panos, published by Idea Group Inc., ISBN: 978-1-59904-639-6

Presentation:

Prateek Jain, Amit P. Sheth, Pascal Hitzler, Peter Z. Yeh, Kunal Verma, "[How To Make Linked Data More than Data](#)", at Semantic Technology Conference 2010, San Jose, CA.

Prateek Jain, Peter Z. Yeh, Amit P. Sheth, Kunal Verma, "[Extending SPARQL to Support Spatially and Temporally Related Information](#)", at Semantic Technology Conference 2009, San Jose, CA.

Active Collaborations:

Dr. Amit P. Sheth (Kno.e.sis, Wright State University, Dayton, OH)

Dr. Kunal Verma (Accenture Technology Labs, San Jose, CA)

Dr. Peter Z. Yeh (Accenture Technology Labs, San Jose, CA)

Dr. Pascal Hitzler (Kno.e.sis, Wright State University, Dayton, OH)

Past Collaborations:

Dr. Sanjay Chaudhary (DA-IICT, Gandhinagar, Gujarat, India)

Dr. Asif Akram (Imperial College, London, UK)

References:

Available on request.