

Prateek Jain

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OBJECTIVE

To obtain a summer intern position utilizing my experience and skills in semantic web, spatial temporal thematic query processing, web services and software engineering.

EDUCATION

Wright State University, Dayton, OH June 2007 – Present
Ph.D. student, Computer Science (Advisor Dr.Amit P. Sheth)

University of Georgia, Athens, GA August 2006 – May 2007
Ph.D. student, Computer Science (Advisor Dr.Amit P. Sheth)

Dhirubhai Ambani Institute of Information & Communication Tech. July 2002 – May 2006
Gandhinagar, Gujarat, India
B.S. Information & Communication Technology

RESEARCH (08/06–present)

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

- **Operators for querying spatial-temporal-thematic data**
Exploring query operators for spatial, temporal and thematic data to address mismatch between query constrains and knowledge base by harnessing various logical relationships.

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 San Jose, CA
Research Intern, summer 2008

- Contributed in the development of RAT (Requirements Analysis Tool). RAT is 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 applications for Reliance Infocomm

Kno.e.sis, Wright State University Dayton, OH
Research Assistant, June 2007- Present

- Research Assistant under Dr. Amit Sheth

- 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

SELECTED PUBLICATIONS

Conference Publications:

Prateek Jain, Peter Z. Yeh, Kunal Verma, Cory Henson and Amit Sheth, "[*SPARQL Query Re-writing for Spatial Datasets Using Partonomy Based Transformation Rules*](#)", In Proceedings of the Third International Conference on Geospatial Semantics (GeoS 2009), Mexico City, Mexico, December 3-4, 2009 (To appear).

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*](#)", Second India Software Engineering Conference, (February 23-26,2009), Pune, India. (Acceptance Rate 10%)

Matthew Perry, Amit Sheth, Farshad Hakimpour, **Prateek Jain**. "[*Supporting Complex Thematic, Spatial and Temporal Queries over Semantic Web Data*](#)", In Proceedings of the Second International Conference on Geospatial Semantics (November 29 - 30, 2007), Mexico City, MX.

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), pp 423-430. DOI= <http://dx.doi.org/10.1109/SCC.2006.86>.

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),pp 131-138, DOI= <http://dx.doi.org/10.1109/APSEC.2006.40>.

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 Proceedings of the First international Workshop on ontology-Supported Business intelligence (October 27 - 27, 2008),DOI= <http://doi.acm.org/10.1145/1452567.1452569>.

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, 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.

References:

Available on request.