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# Bhuvan Bamba

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## OBJECTIVE

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To secure a challenging internship opportunity in the summer of 2009

## RESEARCH INTERESTS

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Location-Based Services, Location Privacy, Data Management, Database Systems.

## EDUCATIONAL QUALIFICATIONS

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| <b>2005 – Present</b> | <b>Ph.D., Computer Science</b><br>College of Computing, Georgia Institute of Technology, Atlanta, Georgia, USA.                     |
| <b>1999 – 2003</b>    | <b>B.Tech., Electrical Engineering (Specialization in Communications)</b><br>Indian Institute of Technology Madras, Chennai, India. |

## WORK EXPERIENCE

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| <b>Jan 2006 – Present</b>  | Graduate Research Assistant with <b>Prof. Ling Liu</b> , Center for Experimental Research in Computer Systems, College of Computing, Georgia Institute of Technology. |
| <b>May 2008 – Aug 2008</b> | Research Intern, Data Intensive Systems and Analytics, IBM T. J. Watson Research Center, Hawthorne, New York.   |
| <b>May 2007 – Aug 2007</b> | Research Intern, Software Tools and Techniques, IBM T. J. Watson Research Center, Hawthorne, New York.  |
| <b>May 2006 – Aug 2006</b> | Research Intern, Autonomic Storage Management Group, IBM Almaden Research Center, San Jose, California.   |
| <b>Aug 2005 – Dec 2005</b> | Graduate Teaching Assistant, College of Computing, Georgia Institute of Technology.   |

- July 2003 – July 2005**    Technical Staff Member, IBM India Research Lab.
- ◆ Worked with Research Staff Members on Research Projects
  - ◆ Application development
  - ◆ Shared responsibility for presentations and demonstrations with other team members
- May 2002 – July 2002**    Summer Intern, IBM India Research Lab.

## RESEARCH PROJECTS

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Current projects in the field of Location-based Services, Location Privacy and Health Informatics.

*SLIM: A Framework for Multi-Source Location-based Information Monitoring*, joint work with Dr. Kun-Lung Wu and Dr. Bugra Gedik at **IBM T.J. Watson Research Center** and Dr. Ling Liu at **Georgia Institute of Technology**.

*Scalable Processing of Spatial Alarms*, joint work with Prof. Ling Liu at **Georgia Institute of Technology** and Dr. Philip S. Yu at **IBM T.J. Watson Research Center**.

*PrivacyGrid: A Framework for Supporting Anonymous Location Queries*, joint work with Prof. Ling Liu at **Georgia Institute of Technology**.

### Selected Past Projects

*SCORE (Symbiotic Context Oriented Information Retrieval)*, joint work with Dr. Mukesh Mohania and Dr. Prasan Roy at **IBM India Research Lab**.

*BioPatentMiner*, joint work with Dr. Sougata Mukherjea at **IBM India Research Lab**.

Details available at <http://www.cc.gatech.edu/~bhuvan/Research.htm>

## PUBLICATIONS

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Bhuvan Bamba, Ling Liu, Philip S. Yu, Gong Zhang and Myungcheol Doo, "Scalable Processing of Spatial Alarms", To Appear In the Proceedings of **IEEE International Conference on High Performance Computing (HiPC 2008)**, Bangalore, India, December 2008.

Bhuvan Bamba, Sangeetha Seshadri and Ling Liu, "Scaling Location-based Services with Dynamically Composed Location Index", In the Proceedings of **IEEE International Conference on Services Computing (SCC 2008)**, Honolulu, Hawaii, USA, July 2008.

Sangeetha Seshadri, Bhuvan Bamba, Brian F. Cooper, Vibhore Kumar, Ling Liu, Karsten Schwan and Gong Zhang, "Grouping Distributed Stream Query Services by Operator Similarity and Network Locality", To Appear In the Proceedings of **IEEE Congress on Services 2008**, Honolulu, Hawaii, USA, July 2008.

Bhuvan Bamba, Ling Liu, Peter Pesti and Ting Wang, “*Supporting Anonymous Location Queries in Mobile Environments with PrivacyGrid*”, In the Proceedings of the **17<sup>th</sup> International World Wide Web Conference, Beijing, China, April 2008**.

Aameek Singh, Madhukar Korupolu and Bhuvan Bamba, “*Integrated Resource Allocation in Heterogeneous SAN Data Centers*”, In the Proceedings of the **26<sup>th</sup> ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing, Portland, OR, USA August 2007 (Brief Announcement)**.

Bhuvan Bamba, Ling Liu, James Caverlee, Vaibhav Padliya, Mahesh Palekar, Joseph Patrao, Suiyang Li, Aameek Singh and Mudhakar Srivatsa, “*DSphere: A Source-Centric Approach to Crawling, Indexing and Searching the World Wide Web*”, In the Proceedings of **IEEE International Conference on Data Engineering (ICDE), April 2007. (Demo Paper)**

Prasan Roy, Mukesh Mohania, Bhuvan Bamba and Shree Raman, “*Towards Automatic Association of Relevant Unstructured Content with Structured Query Results*”, In the Proceedings of **ACM Fourteenth Conference on Information and Knowledge Management (CIKM), Bremen, Germany, November 2005. (Best Interdisciplinary Paper Award)**

Bhuvan Bamba, Prasan Roy and Mukesh Mohania, “*OSQR: Overlapping Clustering of Query Results*”, In the Proceedings of the **ACM Fourteenth Conference on Information and Knowledge Management (CIKM), Bremen, Germany, November 2005. (Poster Paper)**

Sougata Mukherjea, Bhuvan Bamba and Pankaj Kankar, “*Information Retrieval and Knowledge Discovery utilizing a Biomedical Patent Semantic Web*”, **IEEE Transactions on Knowledge and Data Engineering (TKDE), Volume 17, Issue 8, August 2005, Page(s): 1099 – 1110.**

Mukherjea, S., Bamba, B., “*BioPatentMiner: An Information Retrieval System for Biomedical Patents*”, In the Proceedings of the **30<sup>th</sup> Very Large Databases (VLDB) Conference, Toronto, Canada, 2004.**

Bhuvan Bamba and Sougata Mukherjea, “*Utilizing Resource Importance for Ranking Semantic Web Query Results*”, In the Proceedings of the **Second International Workshop on Semantic Web Databases (SWDB), Toronto, Canada, 2004.**

## **PATENTS**

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Bhuvan Bamba and Madhukar Korupolu, “*Scalable Performance-Based Volume Allocation in Large Storage Controller Collections*”. (Patent Filed with USPTO in May 2007)

Madhukar Korupolu, Aameek Singh and Bhuvan Bamba, “*Integrated Placement Planning in Heterogeneous Storage Area Network Data Centers*”. (Patent Filed with USPTO in May 2007)

Sougata Mukherjea and Bhuvan Bamba, “*Importance of Semantic Web Resources and Semantic Associations between Two Resources*”. (Patent Filed with USPTO in April 2004)

## PROFESSIONAL ACTIVITIES

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External Reviewer for ICDE 2007, ICDM 2007, MDM 2007, SIGMOD 2007, WWW 2007, ICDE 2008, SIGMOD 2008, WWW 2008.

PC Member for CollaborateCom 2007.

Reviewer for IEEE Transactions on Knowledge and Data Engineering, IBM Journal of Research and Development.

## AWARDS/HONORS

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Awarded **Best Interdisciplinary Paper Award** at CIKM 2005.

Awarded **Deans Fellowship** for the year **2005 – 2006** by **College of Computing, Georgia Institute of Technology**.

Awarded two **IBM Bravo Awards** for contribution to research work at **IBM India Research Lab (2004)**.

Among the **top 0.35%** of the candidates (**Ranked 386** among 125,000 candidates) at **IIT Joint Entrance Examination 1999**.

Awarded **Gold Medal for consistent academic excellence** in school for seven consecutive years (**1991-1998**).

Awarded the **National Talent Search Examination Scholarship (1997)** by **Government of India**.

## SKILLS

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*Operating Systems:* Windows 9x/2000/NT/XP/Vista, LINUX, UNIX, Sun-Solaris

*Databases:* DB2, MySQL

*Languages:* JAVA, C++

*Web Technologies:* HTML, JSP, XML, RDF/RDFS, OWL

*Other:* DB2 Information Integrator Omnifind Enterprise Search, IBM UIMA, LanguageWare Tools.

## OTHER INFORMATION

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**Languages Known:** Fluent in English and Hindi.

**Hobbies/Other Interests:** Playing Soccer, Hockey, Cricket and Cycling

**Webpage:** <http://www.cc.gatech.edu/~bhuvan>

## PERSONAL DATA

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**Date of Birth:** December 10, 1980

**Sex:** Male

**Citizenship:** Indian

**Visa Status:** Student on F1 Visa

## REFERENCES

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Available on Request.