ABHIJEET MOHAPATRA

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EDUCATION

Stanford University (2008 Fall-current)
Phd. in Computer Sciences (2nd year of program),
Advisor: Jennifer Widom

Indian Institute of Technology (IIT) Kharagpur, India (2004-2008)
B.Tech.(Hons.) Computer Science and Engineering,
Cumulative Grade Point Average: 9.53/10.0

FELLOWSHIP AND HONORS

- IIT Kharagpur J.C. Ghosh Memorial Award *2007*
- IIT Kharagpur Alumni (California Chapter) Award *2006*
- IIT Kharagpur Class of 1970 Alumni (US Association) Prize *2006*
- Indian Academy of Sciences Summer Fellowship *2006*

RESEARCH AND WORK EXPERIENCE

- **Stanford University, member of the Infolab**, *2008-present.* Currently working on Panda (http://infolab.stanford.edu/panda/) and Trio (http://infolab.stanford.edu/trio) projects.
- **Microsoft Research, intern of the DMX Group**, *Summer 2009.* Worked on database compression under the guidance of Ravi Ramamurthy.
  - Proposed a space of compression plans using Run-length and Delta Encoding that gives huge gain in compression ratio over Winzip and Xmill.
  - Built a tool *DBZip* that allows the user to compress/decompress a table in a SQL Server database. It additionally allows the user to select compression levels, lower levels leading to lower compression ratios and compression times.
- **Cornell University, intern of the Database Group**, *Summer 2007.* Worked on the Scalable Games Project (http://www.cs.cornell.edu/bigreddata/games) under the guidance of Johannes Gehrke, Alan Demers and Walker White.
  - Proposed a new architecture supporting decoupled threads in the game engine.
  - Proposed buffer management and log updation techniques for this new architecture.
  - Worked on new algorithms for collision avoidance in large crowd simulations.
- **KRAIG, IIT Kharagpur**, *2006-2007* Worked on the Automated Waiter Project as the Head of the Artificial Intelligence Team of KRAIG (Kharagpur Robotics and Artificial Intelligence Group)
- **IBM India Research Labs, New Delhi**, *Summer 2006.* Developed a formal model, under the guidance of Dr. R.K. Shyamasundar to handle continuous queries on complex event streams in the temporal logic framework of Lustre.

PUBLICATIONS

- Undergraduate Thesis on *Efficient Scheduling of Synchronous Data-Flow (SDF) Graphs* ensuring Fairness and Buffer Optimization under the guidance of Dr. P. P. Chakrabarti, I.I.T Kharagpur. *2008*
- Technical Report *Capturing safety properties of Stream queries in a temporal logic framework* submitted to the Indian Academy of Sciences, Bangalore. *2006*

SKILLS

C, C++, C#, Python, Java