

Priya Natarajan

Department of Computer Science
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Research Interests

Parallel computing.

Education

Dartmouth College, Hanover, New Hampshire, USA

Pursuing Ph.D. in Computer Science. September 2005–present.

Advisor: Thomas H. Cormen.

University of Pune, Pune, India

Master of Computer Applications, June 2003.

Lady Shri Ram College for Women, University of Delhi, Delhi, India

B.Sc. (Hons.) Statistics, June 2000.

Honors and Awards

Gold Medalist in Statistics, University of Delhi, Class of 2000.

Best Student in Statistics Award, Dept. of Statistics, Lady Shri Ram College for Women, 1998–1999.

Professional Experience

Dartmouth College, Hanover, New Hampshire, USA

Graduate student, September 2005–present. Teaching:

- Instructor (programming lead) in the Summer Robotics Program at Dartmouth College, 2006 and 2007. Worked in the girls-only camp with students in grades 6–8. Responsible for the programming aspect of the camp: taught the fundamental concepts of programming, and introduced the syntax of the graphical programming language, RoboLab. Guided the students in designing and writing programs for the challenges. Helped with the general working and set-up of the girls-only camp.
- Teaching Assistant for a junior/senior-level artificial intelligence course, Winter 2006.
- Teaching Assistant for an undergraduate/graduate-level bioinformatics course, Spring 2008.
- Teaching Assistant for a beginner-level course on concepts in computing, Summer 2008.
- Teaching Assistant for a course in programming for interactive digital arts, Winter 2009.

ADP Private Limited, Hyderabad, India

July 2003–October 2004. Member Technical. Analysis, design, development, and testing of various components involved in building a replacement to an existing transaction manager system using UPM, an infrastructure for technical and business architecture components. Worked on modules for routing to the target system, tagged message formatters, and trade and task purger.

Prepared on March 30, 2009.

Tellus Technologies Private Limited, Pune, India

March 2003–June 2003. Software Intern. Implemented the modifications required in a web application to integrate Formseal, a digital signature tool for digital signing and verification, into the application.

Novell Software Development India Limited, Bangalore, India

June 2002–October 2002. Software Intern. Presented the raw data and statistics of the TCP/IP protocol stack, collected using the NetWare Remote Manager framework, in a useful way to the administrator. Analyzed the state of these statistics to give suggestions, alerts, and errors to the administrator.

Publications

Unrefereed Articles

Thomas H. Cormen, Priya Natarajan, and Elena Riccio Davidson. *When One Pipeline Is Not Enough*. Dartmouth College Computer Science Technical Report TR2007-596, June 2007.

Posters

Priya Natarajan, Thomas H. Cormen, and Elena Riccio Davidson. *Out-of-core Sorting: Oblivious vs. Distribution-based*.

- Computer Science Research Symposium, Dartmouth College, Hanover, New Hampshire, September 2006.

Priya Natarajan, Thomas H. Cormen, and Elena Riccio Davidson. *FG vs. TBB: a Comparison*.

- Computer Science Research Symposium, Dartmouth College, Hanover, New Hampshire, September 2008.

Technical Skills

Programming Languages

Have worked mostly in C. Am familiar with MPI, C++, Java, Python, and Matlab.

Operating Systems

Have worked on Linux, Solaris 10, and Netware 6.

Personal

Citizen of India.