Sara E. Sprenkle

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Present Address	**Permanent Address**
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Objective: a summer internship in a computer science at a leading research laboratory

Research Interests: I am broadly interested in distributed applications and novel infrastructures that provide support for increased application scalability and performance.

Education

University of Delaware	Ph.D. candidate
Newark, DE	Advisor: Lori Pollock
Duke University	M.S., Computer Science, February 2004. Advisor: Jeff Chase
Durham, NC	2000 NSF Graduate Research Fellow
Gettysburg College	B.S., Computer Science and Mathematics, May 1999
Gettysburg, PA	Summa Cum Laude, Phi Beta Kappa

Recent Work Experience

University of Delaware   **Research Assistant**
[February 2004-present] Working with Lori Pollock on applying compiler techniques to software maintenance.

IBM Extreme Blue Cambridge   **Software Engineer Intern**
[Summer 2003] Worked with a four-person team of Extreme Blue interns on the Mobile Moscow project. The team was responsible for designing and implementing a technical and business plan, culminating in a presentation and demonstration to IBM executives.

Duke University   **Research Assistant**
[August 2000 – January 2004] Under the direction of Dr. Jeff Chase, worked on three projects—SHARP, Cluster-on-Demand, and Ivory.

IBM T.J. Research Center   **Co-op Pre-professional Programmer**
[Summer 2002] Worked with Dr. Khalil Amiri in the Server and Enterprise Networking department on a self-managing dynamic edge data cache.

IBM Research Triangle Park   **Tivoli Intern**
[Summer 2001] Worked with Dr. Jim Jennings and Esther Burwell. I helped to design and implement a Java servlet-based front end prototype to the Device Management product.

IBM T.J. Research Center   **Co-op Pre-professional Programmer**
[Summer 1999] Worked with Dr. Mark Chu-Carroll. I helped to implement the client side of a distributed, collaborative programming environment in Java.

Selected Publications

"Exploiting Templates to Scale Consistency Maintenance in Edge Database Caches." Khalil Amiri, Sara Sprenkle, Renu Tewari, and Sriram Padmanabhan. Eighth International Workshop on Web Content Caching and Distribution (WCW), September 2003.

"Dynamic Virtual Clusters in a Grid Site Manager." Jeffrey S. Chase, David E. Irwin, Laura E. Grit, Justin D. Moore, and Sara E. Sprenkle. In proceedings of the Twelfth International Symposium on High Performance Distributed Computing (HPDC 2003), June 2003.

"Coven: Brewing Better Collaboration through Software Configuration Management." Mark C. Chu-Carroll and Sara E. Sprenkle. In proceedings of the Eighth International Symposium on the Fundamentals of Software Engineering (FSE 2000), November 2000.