Shardool

338084 Georgia Tech Station, Atlanta, GA 30332
Email: shardool@gatech.edu ● Phone: 408 596 0057 ● http://www.cc.gatech.edu/~shardool/

OBJECTIVE
Seeking a job where I can apply and enhance my skills at systems programming

EDUCATION
Master of Science in Computer Science   *Expected - May 2009*
Georgia Institute of Technology, Atlanta, USA
GPA: **4.0/4.0**

B.Tech with Honors in Information Technology   *January 2001 - December 2004*
Indian Institute of Information Technology, Allahabad, India
CGPA: **9.0/10.0**

PROFESSIONAL EXPERIENCE
Georgia Institute of Technology – High Performance I/O Group (at CERCS)
(Designation: **Graduate Research Assistant**)   *January 2008 - Present*
- Developed tools for monitoring behavior of Supercomputing applications
- Developing methods for efficient scheduling of I/O Operations of HPC applications

Worldspan L.P. (Designation: **Software Intern)**   *May 2008 - August 2008*
- Parallelized the flight-search engine for using multi-core architectures
- Produced significant improvements in the query execution time

Motorola India Pvt Ltd – Embedded Communications Computing Division   *May 2005 - July 2007*
(Designation: **Software Engineer**)
- Developed a High-Availability Middleware on Linux, compliant with Service Availability Forum (www.saforum.org)
- Validated the Fault Tolerant Advanced Telecom Computing platform developed by Motorola

SKILL SET
Programming Languages	C, C++, Java, Assembly (Intel x86)
Scripting Languages	Shell Scripting(bash), Perl
Others (Tools/APIs)	Lex & Yacc, Infiniband Verbs, Linux Kernel Programming
Development Platforms	Linux, Unix , Windows Server 2003
Coursework	*Graduate Courses:* Advanced Operating Systems, Real-Time Systems, High Performance Communications, Computability and Algorithms, Computer Networks, Parallel Computation
	Undergraduate Courses: Operating Systems, Computer Networks, Distributed Computing , Computer Graphics, Computer Algorithms, Parallel Computing

ACADEMIC PROJECTS
RDMA Based Portability Layer   *January 2008 - Present*
- Provides a unified interface to Portals and Infiniband Verbs API
- Enables common RDMA semantics for both the underlying APIs
- Presently adding this RDMA support to the EVPath event transport middleware

Co-Scheduling Enhancements for Linux   *August 2007 – December 2007*
- Modified the Linux scheduler (2.6.22) for improving performance of applications with concurrent tasks
- Improved performance of user-level spinlocks while maintaining fair-scheduling of tasks

LITMUS (Linux Time Measurement Utility Set)   *August 2004 – December 2004*
- Created a set of utilities titled LITMUS to analyze the performance of Linux kernels (2.4)
- Evaluated the performance based on the parameters like interrupt latency, context switching time and their impact on real-time performance was studied

OTHER ACTIVITIES
- Won the IT Quiz held at IIIT, Allahabad
- Organized the technical festival at IIIT, Allahabad
- Outdoor activities - Mountain Biking, Kayaking