

## SUMEET SOBTI

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### OBJECTIVE

Full-time position in **distributed systems, data storage systems and networking**, starting January 2005

### EDUCATION

**Princeton University**, Princeton, NJ (2000 – Present)

Pursuing Ph.D. in Computer Science

Advisor: Prof. Randy Wang

Upcoming thesis:

**“Distributed Mobile Storage Systems for Non-Uniform Connectivity”**

**University of Washington**, Seattle, WA (1997 – 2000)

M.S. in Computer Science, GPA: 3.84 / 4.0

**Indian Institute of Technology**, Kanpur, INDIA (1993 – 1997)

B. Tech. in Computer Science, GPA: 10.0 / 10.0

### EXPERIENCE

**Research Assistant**, Princeton University

Played the leadership role in several research projects involving as many as six fellow graduate students. See publications for research results and project details.

**Teaching Assistant**, Princeton University

Assisted in teaching “Operating Systems,” “Database Systems” and “Introduction to Computing” courses.

**Summer Intern**, NEC Research Institute, Princeton, NJ

As part of the Intermemory project, I designed and implemented an industrial-strength B+-tree based database, and a data-synchronization facility to efficiently propagate updates among a set of distributed databases. (Summer 1998 & Summer 1999)

**Research Assistant**, University of Washington

Designed and implemented efficient algorithms for several geometric optimization problems arising in typography. The implementation included sophisticated algorithms for solving instances of linear-programming and network-flow problems.

**Teaching Assistant**, University of Washington

Served as the “Head Teaching-Assistant” for an “Introduction to Programming” course with more than 300 students. My role included coordinating a group of 8 teaching assistants, helping with design of homework and exam papers, and other organizational work. I also assisted in teaching several theory courses including “Algorithms,” “Theory of Computation,” and “Discrete Mathematics.”

## SELECTED PUBLICATIONS

1. S. Sobti, N. Garg, F. Zheng, J. Lai, Y. Shao, C. Zhang, E. Ziskind, A. Krishnamurthy and R. Wang, "Segank: A Distributed Mobile Storage System," *Proc. 3rd Conference on File and Storage Technologies (FAST)*, Mar 2004
2. S. Sobti, J. Lai, Y. Shao, N. Garg, C. Zhang, M. Zhang, F. Zheng, A. Krishnamurthy and R. Wang, "Network-Embedded Programmable Storage and Its Applications," *Proc. 3rd IFIP-TC6 Networking Conference (NETWORKING)*, May 2004
3. R. Wang, S. Sobti, N. Garg, E. Ziskind, J. Lai and A. Krishnamurthy, "Turning the Postal System into a Generic Digital Communication Mechanism," *Proc. ACM SIGCOMM Conference*, August 2004.
4. S. Sobti and P. N. Yianilos, "Distributed Storage," Book Chapter, *Practical Handbook of Internet Computing*, Edited by Munindar P. Singh, Chapman Hall & CRC Press, Sept. 2004
5. F. Zheng, N. Garg, S. Sobti, C. Zhang, R. Joseph, A. Krishnamurthy and R. Wang, "Considering the Energy Consumption of Mobile Storage Alternatives," *Proc. 11th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS)*, Oct 2003
6. J. Zedlewski, S. Sobti, N. Garg, F. Zheng, A. Krishnamurthy and R. Wang, "Modeling Hard-Disk Power Consumption," *Proc. 2nd Conference on File and Storage Technologies (FAST)*, Mar 2003
7. S. Sobti, N. Garg, C. Zhang, X. Yu, A. Krishnamurthy and R. Wang, "PersonalRAID: Mobile Storage for Distributed and Disconnected Computers," *Proc. 1st Conference on File and Storage Technologies (FAST)*, Jan 2002
8. Y. Chen, J. Edler, A. Goldberg, A. Gottlieb, S. Sobti and P. Yianilos, "A Prototype Implementation of Archival Intermemory," *Proc. 4th ACM Conference on Digital Libraries (DL)*, Aug 1999