



Sumit Narayan

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EDUCATION

University of Connecticut Storrs, CT

Ph.D., Electrical & Computer Engineering

August 2006 – In progress

Concentration: Storage systems in high-performance computing domains

Advisor: Dr. John A. Chandy

University of Connecticut Storrs, CT

M.S., Electrical & Computer Engineering

January 2003 – December 2004

Thesis: File System Optimization using Block Reorganization Techniques

Advisor: Dr. John A. Chandy

University of Madras Chennai, India

B.E., Electrical & Electronics Engineering

August 1998 – May 2002

Thesis: Verilog Simulation of Ethernet Transmitter and Receiver

WORK EXPERIENCE

University of Connecticut Storrs, CT

Graduate Research Assistant

August 2006 – Present

Argonne National Laboratory Chicago, IL

Research Aide, Mathematics and Computer Science Division

May 2008 – July 2008

Data Storage Institute (A*STAR) Singapore

Research Officer – Network Storage Technologies

June 2005 – August 2006

MindTree Consulting Pvt. Ltd. Bangalore, India

Client – StorageTek (now Sun Microsystems)

Engineer – R & D Services (Storage)

December 2004 – May 2005

University of Connecticut Storrs, CT

Graduate Research Assistant

January 2003 – October 2004

PUBLICATIONS

Low-Power Transition-Delay Fault Pattern Generation

(honorable mention for Best Student Paper award)

Jeremy Lee, Sumit Narayan and Mohammad Tehranipoor

in IEEE North Atlantic Test Workshop (NATW), Boxborough, MA. May 2008

Layout-aware, IR-Drop Tolerant Transition Fault Pattern Generation

Jeremy Lee, Sumit Narayan, Mike Kapralos and Mohammad Tehranipoor
in Design, Automation and Test in Europe (DATE), Munich, Germany. March 2008

Parity Redundancy in Clustered Storage Systems

Sumit Narayan and John A. Chandy
in 4th IEEE International Workshop on Storage Network Architecture and Parallel I/Os (SNAPI),
San Diego, CA. September 2007

Reliability Tradeoffs in Personal Storage Systems

John A. Chandy and Sumit Narayan
in (journal) ACM Operating Systems Review, Vol. 41, No. 1, pp 37–41. January 2007

Large-scale Intelligent Object-based Network Storage (LIONS)

Sumit Narayan
in (poster) Science and Engineering Research Council (SERC) Inter-Research Institute Poster
Symposium, Singapore. October 2005

Trace-based Analysis of File System Effects on Disk I/O

Sumit Narayan and John A. Chandy
in International Symposium on Performance Evaluation of Computer and Telecommunication
Systems (SPECTS), San Jose, CA. July 2004

PROJECTS

Active Storage Networks

Storage and Network Systems Laboratory, University of Connecticut, USA. September 2006 –
Present

Large-scale Intelligent Object-based Network Storage (LIONS)

Data Storage Institute (A*STAR), Singapore. July 2005 – August 2006

Continuous Data Protection Application

MindTree Consulting Pvt. Ltd., Bangalore, India. December 2004 – June 2005

File system Optimization using Block Reorganization Techniques

Storage and Network Systems Laboratory, University of Connecticut, USA. November 2004 –
August 2005

AWARDS

Summer Fellowship

University of Connecticut, Summer 2008

Best Student of the Batch 1998-2002

Sathyabama Engineering College, University of Madras, Chennai, India. May 2002

NIIT Brain of the Year 1997

National Institute of Information Technology, Chennai, India. May 1997

SKILLS

Languages: C, C++, Perl, Verilog

Database: MySQL, PGSQL

Tools: GDB, CVS, Matlab, DiskSim, ClearCase

TRAINING

Verilog HDL and Digital Systems

B.E. Final Year Project, R. R. Systems, Chennai, India. February 2002 – April 2002

Oracle, Java and Visual Basic

Software Technology Group, Inc., Chennai, India. January 2002 – June 2002

INTERESTS

Computers: Operating systems, open source projects, file systems

Membership: Student member of IEEE, IEEE Computer Society, ACM, ACM SIGOPS and Apple Developer Connection

Others: Reading IT magazines (eWeek, Storage, Dr. Dobbs), photography

REFERENCES

Dr. John A. Chandy

Associate Professor

Department of Electrical & Computer Engineering

University of Connecticut

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Dr. Mohammad Tehranipoor

Assistant Professor

Department of Electrical & Computer Engineering

University of Connecticut

Email: tehrani@engr.uconn.edu