

RAJ KUMAR

HOME ADDRESS

64 W 108 St.
New York, NY 10025
(212) 665-4602

WORK ADDRESS

500 W 120 St.,1312
New York NY 10027
(212) 854-0513

EDUCATION

Columbia University, New York, NY, Ph.D., Electrical Engineering, Expected 2007
Columbia University, New York, NY, M.S., Computer Science, 1999
The Indian Institute of Technology, Madras, B.Tech. Engineering

EXPERIENCE

Intern	Lucent Bell Labs	Summer 2006	Murray Hill, NJ
Thwarting DDOS attacks through selective discard of requests.			
Intern	NEC Labs, America	Summer 2005	Princeton, NJ
Implemented and tested an Overlay Network for routing VoIP calls on PlanetLab.			
Consultant	Deutsche Bank Proprietary Trading	2001-2004(Part-Time)	New York, NY
Developed analytic, real-time software for equity pairs-trading and convertible bonds.			
Intern	Philips Research, USA	Summer 2001	Scarborough, NY
Implemented temporal and spatial scalability in the MPEG-4 codec.			
Consultant	AT&T Research Labs	1998-99	Red Bank, NJ
Implemented image-search features in virtual shopping software.			
Engineer	BoxHill Systems	1994-98	New York, NJ
Developed R.A.I.D storage arrays.			

SELECTED PUBLICATIONS:

Raj Kumar Rajendran, Vishal Misra, Dan Rubenstein. "Theoretical Bounds on Control Plane Self-Monitoring in Routing-Protocols" *ACM Sigmetrics 2007, San Diego, June 2007*

Raj Kumar Rajendran, Vishal Misra, Dan Rubenstein. "Strong Detection of Misconfigurations" *Brief Announcement, Principles of Distributed Computing (PODC) 2005, Las Vegas, July 2005, Full Version, Allerton, Illinois, Sept. 2006*

Raj Kumar Rajendran, Dan Rubenstein. "Optimizing the quality of scalable video streams on P2P Networks" *Extended Abstract in ACM Sigmetrics 2004, New York, June 2004, Full Version in Journal of Computing Networks (JCN), June 2006*

Raj Kumar Rajendran, Mihaela van der Scharr, Shih-Fu Chang. "FGS+: Optimizing the Joint SNR-Temporal Video Quality in MPEG-4 Fine Grained Scalable Coding" *IEEE International Symposium on Circuits and Systems 2002, Phoenix, May 2002*

Raj Kumar Rajendran, Shih-Fu Chang. "Image Retrieval with Sketches and Coherent Images" *International Conference on Multimedia Exposition 2000, New York, Aug 2000*

L. Golubchik, and Raj Kumar Rajendran. "A Study on the use of Tertiary Storage in Multimedia Systems." *Proceedings of the 16th IEEE Symposium on Mass Storage Systems, Washington, DC, March, 1998.*

HONORS AND AWARDS

Elected to Student Senate, The Indian Institute of Technology, Madras
Second place, IEEE 2002 Sarnoff Symposium Student Paper Contest

COMPUTER SKILLS

C++, Java, PERL, UNIX, Windows

EXTRACURRICULAR ACTIVITIES

Squash, Ultimate Frisbee, Hiking, White-water Kayaking, Ceramic Pottery