

Himanshu Raj

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EDUCATION. **Georgia Institute of Technology**, Atlanta, GA. Ph.D. in Computer Science, April 2008. GPA 4.0/4.0.

Advisor: Prof. Karsten Schwan.

Thesis title: *Virtualization Services: Scalable Methods for Virtualizing Multi-core Systems*.

. **University of Florida**, Gainesville, FL. M.S. in Computer Science, December 2001. GPA 4.0/4.0.

Advisor: Dr. Eric Hanson.

Thesis title: *Integrated Alerting for Structured and Free-Text Data in Trigger-Man*.

. **Indian Institute of Technology**, Guwahati, India. B.Tech. in Computer Science and Engineering, July 2000. GPA 9.16/10.

Advisor: Dr. Sukumar Nandi.

Thesis title: *Visual Cryptography and Visual Authentication: Experiments and Analysis*.

RESEARCH INTERESTS System virtualization with specific focus on multicore systems and trusted services.

RECENT PUBLICATIONS . O2S2: Enhanced Object-based Virtualized Storage, in SPEED 2008, in conjunction with HPCA 2008.

. Enabling Semantic Communications for Virtual Machines via iConnect, in VTDC 2007, in conjunction with SC 2007.

. VMedia: Enhanced Multimedia Services in Virtualized Systems, in MMCN 2008.

. Re-architecting VMMs for Multicore Systems: The Sidecore Approach, in WIOSCA 2007, in conjunction with ISCA 2007.

. High Performance and Scalable I/O Virtualization via Self-Virtualized Devices, in HPDC 2007.

. Complete list available from <http://www.cc.gatech.edu/~rhim/pubs.html>.

RECENT EXPERIENCE . **Software Development Engineer II**, Platform and Security Incubation, Microsoft (December 2007 – present). Research and development in trusted virtualized platforms.

. **Research Assistant**, Georgia Institute of Technology (Spring 2003 – Fall 2007). Research in system virtualization and adaptive mobile systems.

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- . **Research Intern**, K42 group at IBM T.J. Watson Research Lab, Yorktown Heights, NY (Fall 2004). Research and development related to rHype, IBM's research hypervisor and K42 operating system.
- . **Research Intern**, Enterprise Linux Group at IBM T.J. Watson Research Lab, Yorktown Heights, NY (Summer 2004). Virtualization related work for Linux and zVM.
- . Complete list available from <http://www.cc.gatech.edu/~rhim/CV-Himanshu.pdf>.

TECHNICAL SKILLS . *Programming Languages:* C/C++, Java, Assembly (x86/IXP2400), Python, Perl, Tcl/Tk, SQL, HTML, shell scripting

- . *Hypervisors:* Xen, VMWare Workstation
- . *Operating Systems:* Linux, PalmOS, Symbian, Real Time Linux, Windows
- . *Tools:* Sun JDK, MS Visual C++, GNU Compiler Tools, IBM Cell SDK, Oracle, MS SQL server, PalmOS Development, ns2, LaTeX
- . *Technologies:* System virtualization, Linux Kernel and Device Driver Development, Intel Network Processor, IBM Cell Processor, Bluetooth, CORBA, Java (Servlets, Swing, EJB, MIDlets), Microsoft .NET, XML, ODBC/JDBC

HONORS . Evaluated Outstanding Intern at IBM T.J. Watson Labs, NY, Summer 2004.
. Certificate of Merit, awarded by the University of Florida for academic excellence, 2006.
. Ranked 2nd in the class of 2000, Indian Institute of Technology, Guwahati, among 75 students.