

Rajiv Aaron Manglani

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Summary Extensive technical experience and knowledge in a broad range of information technologies and their applications. Critical thinker capable of working both with teams and independently. Demonstrated technical leadership, vision setting, and innovation in applying technology to solve problems. Excellent communication skills. Eye for good technical and graphic design. Unique education with a B.S. in Brain and Cognitive Sciences from MIT which brings diversity and hands-on human-factors experience to the design of interactive systems.

Experience **Angstrom Microsystems** Boston, MA
Senior Engineer March 2004–Present
Lead System Administrator for a producer of 1000+ node AMD Opteron blade clusters. Configured and benchmarked clusters noted on TOP500.org. Deployed blades and servers at client sites. Selected achievements include:

- Worked with a team to design and implement all IT systems for a new film studio in Berlin, Germany. Designed and deployed Alias/Maya workstations, setup DNS and DHCP servers, web proxy hosts, and the rendering cluster. Designed TCP/IP addressing scheme. Worked on-site with artists to further tune and enhance their Linux desktop environments.
- Reworked deployment and production infrastructure. Created software deployment servers using DHCP, PXE, TFTP, and SuSE AutoYast, enabling staff to perform thousands of unattended installs. Customized operating system and software loads for each client system.
- Created a PC104-based serial concentrator using Embedded Gentoo Linux. Setup build environments, specified and compiled base operating system.
- Rebuilt and maintained all critical corporate servers: email, web, remote access, intranet, and documentation. Re-architected internal network, reducing collisions and retransmissions. Provided end-user support for Linux and Windows desktop systems. Documented IT infrastructure to ensure knowledge transfer and training.

Gentoo Linux Brookline, MA; Cambridge, MA
Security Team Member; Volunteer Developer September 2002–Present
PowerPC developer and Security Auditor for Gentoo Linux, a special flavor of Linux that can be automatically optimized and customized for specific applications and needs.

- Configured and performance-tuned Apache web server for <<http://www.gentoo.org/>>.
- Gave training lectures and introductory presentations to Boston-area Linux user groups.

Independent Contractor Brookline, MA; New York, NY
User Experience Designer; Information Architect; Developer April 2002–Present

- For a client of Wellogic Consulting: Debugged errors in HTML, DHTML, and CSS code for a next-generation clinical scheduling and patient management application. Implemented new reporting modules using a custom web-components framework with JSP and JavaScript.
- For the Center for Innovative Visual Rehabilitation at the Boston VA Medical Center: To address the needs of patients, research scientists, and veterans the Center needed to create an informational web site. Conducted user-research workshops intended to describe the core audiences and their needs. Built the web site in XML/XSLT and XHTML/CSS, compliant with Section 508 and WAI.
- Created visual design and back end code for the web site of network of lawyers. Built a referral system to track leads from other law-related sites. Clients can submit appearance requests online for over 150 part-time lawyers. Leads are now received in a consistent fashion, increasing intake volume.
- For an independently published phonics program: The Lightning Phonics Program was looking to update their image and online presence. Created information architecture, reorganizing and recreating content on the site. Produced and built new web site with a fresh visual design.

Sapient Corporation Valley Forge, PA; Jersey City, NJ; Cambridge, MA
Senior Engineer; Technical Lead; Site Developer August 1996–July 2001
Creative technical lead with extensive background in web design, coding, translating needs into evaluation criteria, team building and understanding in depth, how technology can best solve business problems. Selected accomplishments include:

- Built a technical R&D team of 4 engineers and a project manager, tasked with selecting technologies, packages, and platforms to be used by internal teams to deliver projects. Decided which product spaces to evaluate, identified key vendors (top industry players), and determined functional and technical evaluation criteria. Worked closely with vendors, creating development scenarios and prototypes, documenting outcomes. Wrote white papers and made presentations on product spaces and findings to all US Sapient offices.
- Recruited to build a targeted brokerage site. Went on to develop Java code for key components to display account balances and handle global navigation. Designed site, based on work patterns of professional traders, to meet specific usability requirements as well as high level functional and performance design goals. Hacked site to diagnose security holes. Assumed lead on information architecture.
- Spent three months on-site in advance of the development team to become immersed in client's existing systems architecture. Wrote C code to fill gaps in performance and stability of custom-coded middle-ware. Worked as go-to person for team of 12 developers in building a 401(k) reporting system that would interface with client's existing systems.

The Boston Jewish Film Festival West Newton, MA
Pro-bono Technology Consultant August 1995–Present

- Designed and built a multi-database film tracking system in FileMaker Pro used to track submissions, schedule screenings, and manage production of the annual 10-day event.
- Produced and managed the Festival's web site since 1995.
- Recovered data from burned and melted computers after a fire destroyed the Festival offices. Selected and purchased replacement servers and office machines.

Nissan Research & Development, Inc. Cambridge, MA
Cambridge Basic Research June 1995–June 1996

- Augmented SGI/OpenGL based driving simulator, writing graphic routines in C and C++.
- Performed extensive data analysis using MATLAB and custom-written C routines.

Education **Massachusetts Institute of Technology** Cambridge, MA
Bachelor of Science in Brain and Cognitive Sciences June 1996
Minor in Writing, concentration in Media Arts & Sciences.

Stuyvesant High School New York, NY
Regents Diploma with Honors, Member of The National Honor Society June 1992

Proficiencies Linguistic skills: Strong verbal, written, and presentation skills. Conversational French.
Development experience: Java, JSP, C/C++, PHP, XML/XSLT, HTML, XHTML/CSS, AppleScript, Macintosh Toolbox (Carbon & Cocoa), UNIX shell scripting (bash, csh, tcsh).
HPC technologies: Pathscale, PGI, and GNU compiler performance tuning, Infiniband, Myrinet, MPICH, LAM-MPI, PDSH, Linpack and NAS benchmarks, DHCP, PXE, TFTP, NFS.
UNIX experience: Installation and configuration of GNU/Linux and Sun Solaris systems, Apache, BIND 9, ISC DHCP, qmail, OpenSSH, MySQL, ipchains, iptables, Linux kernel.
Software packages: all major graphics and office programs including: Adobe Acrobat, AfterEffects, FrameMaker, Illustrator, Photoshop, and Premiere, BBedit, FileMaker Pro, Microsoft Office, Visio, and QuarkXPress.
Operating systems and platforms: Gentoo, RedHat, SuSE GNU/Linux, Mac OS 9, Mac OS X, Microsoft Windows 2000, Sun Solaris, TCP/IP network routing, firewall configuration.

Pursuits Regular presenter at the Boston Linux User Group and MIT IAP.
Attendee of numerous professional seminars and conferences.
Eagle Scout with Bronze Palm, Greater New York Councils, Boy Scouts of America.