

Rajiv Aaron Manglani

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Summary Creative product designer and technical lead with extensive hands-on experience and knowledge in a broad range of information technologies and their applications. Demonstrated technical leadership, vision setting, and innovation in applying technology to solve business problems. Eye for good technical, visual, and user experience design. Excellent communication skills. Unique education with a B.S. in Brain and Cognitive Sciences from MIT, which brings diversity and human-factors experience to the design of interactive systems.

Experience **Akamai Technologies** Cambridge, MA
Senior Product Line Manager for Secure Delivery, SSL/TLS, and IPv6 June 2014–Present

WeSpire (formerly Practically Green) Boston, MA
Director of Engineering April 2011–June 2014

Led all engineering and technology activities at a startup using interactive technology, game mechanics, and social media to address the challenges of sustainability. Built up the design and engineering teams to change the focus of the company from a consumer-oriented site to a white-label, hosted SaaS offering enabling the creation of customized sustainability programs.

- Designed, then managed the outsourced development of a native iOS application. Brought new development back in-house and coded and shipped a significant new version of the app.
- Architected and led the development of a Backbone.js-powered mobile web application and associated REST API. Partnered with the SXSW ECO conference to embed the mobile web application into their native iOS conference application.
- Oversaw the rebuilding of the entire platform. Determined overall technical architecture, replacing the entire codebase and reworking the user experience, all while the site continued to function, service customers, and drive revenue growth.
- Responsible for all infrastructure of the company's platform including performance and security optimizations, bulk email and job queuing systems using Resque and Redis, and system monitoring. Ported the site from custom hosting to run on Heroku and Amazon AWS.
- Developed an open-source SAML authentication strategy for the OmniAuth framework.

3M ESPE (formerly Brontes Technologies) Lexington, MA
Architect, Enterprise Applications November 2005–December 2010

Lead web systems architect for a startup acquired by 3M in October 2006. Built a Ruby on Rails-based web application platform designed to support 3D dental scanners. Digital dental impressions are uploaded from 1000+ scanners worldwide while the system handles case workflow, file storage, device management, interfaces to processing tools, user authentication, auditing, customer training, billing, and exports to reporting and 3rd-party distribution channels.

- Responsible for the complete system development cycle for a case management platform including sessions with product managers, internal 3M users, and customers. Led technical design sessions to translate business requirements into user experience and screen design, technical design, development schedule, tasks, and releases.
- Recruited and managed a 4-engineer development team. Implemented a multi-branch, test-driven development and continuous integration process. Advised QA in automated testing of critical test scenarios. Worked closely with Production IT to deliver a supportable and scalable system. This agile process resulted in regular, weekly production releases.
- Created a technical architecture for multiple scaleable web applications using Ruby on Rails, MySQL, Apache, Memcached, MogileFS for file storage, RabbitMQ and AMQP for message passing, Djabberd and XMPP for scanner communication, CAS Authentication for single sign-on, REST-style APIs for integration with support and 3D production tools running on Windows, and SOAP based integrations to 3M billing, reporting, and CRM systems.
- Planned and executed a move of IT systems to new offices. Designed and installed the company's first datacenter. Setup a multi-VLAN network, internet access, PRI links for voice.

Angstrom Microsystems*Senior Engineer*

Boston, MA

March 2004–February 2006

Lead system administrator for a producer of 1000+ node AMD Opteron blade clusters.

Configured and benchmarked clusters noted on TOP500.org.

- Worked on-site with artists and the technical team to design and implement all IT systems, Alias/Maya workstations, and the rendering cluster for a new film studio in Berlin, Germany.
- Reworked deployment and production infrastructure. Created software deployment servers enabling the staff to perform thousands of unattended installs.
- Created a PC104-based serial concentrator using Embedded Gentoo Linux.

Gentoo Linux*VoIP Team Member; Security Auditor*

Brookline, MA; Cambridge, MA

September 2002–November 2013

- Volunteer developer for a Linux distribution that can be automatically optimized and customized for specific applications and needs.

Independent Contractor*User Experience Designer; Information Architect; Developer*

Brookline, MA; New York, NY

April 2002–March 2006

- Built a web development consulting practice. Clients included Wellogic Consulting, Cerner Healthcare, and the Boston VA Medical Center.

Sapient Corporation*Senior Engineer; Technical Lead; Site Developer*

Valley Forge, PA; Jersey City, NJ; Cambridge, MA

August 1996–July 2001

- Built a technical R&D team of 4 engineers and a project manager. Identified product spaces to evaluate, determined functional and technical evaluation criteria, wrote white papers.
- Part of a team that built a targeted brokerage web site for professional traders. Hacked site to diagnose security holes. Assumed lead on information architecture.
- Worked as a web application subject matter expert for a team of 12 developers building the first web-based 401(k) reporting system. Wrote C code and worked on-site to become immersed in client's existing systems architecture.

The Boston Jewish Film Festival*Pro-bono Technology Consultant*

West Newton, MA

August 1995–Present

- Designed and built a Ruby on Rails film tracking system to manage the annual 10-day event. Setup, monitored, and performance-tuned Linux-based hosting for the application.
- Installed an Asterisk-based PBX system with POTS lines and VoIP hard phones.
- Recovered data from burned and melted computers after a fire.

Education

Massachusetts Institute of Technology*Bachelor of Science in Brain and Cognitive Sciences*

Cambridge, MA

June 1996

Minor in Writing, concentration in Media Arts & Sciences.

Proficiencies

Strong verbal, written, and presentation skills; Apple Keynote, Adobe Photoshop.

Development experience: Ruby, Ruby on Rails, Java, JSP, C/C++/Objective-C, Mac OS X Cocoa and iOS, RubyMotion, Safari Extensions, UNIX shell scripting, Subversion, Git.

Web technologies: Apache, nginx, MySQL, PostgreSQL, Redis, Memcached, MogileFS,

RabbitMQ, AMQP, JSON, XMPP, REST, SOAP, and SAML APIs, PHP, XML/XSLT, HTML/CSS.

UNIX experience: Installation and configuration of Gentoo, Arch, RedHat, Centos GNU/Linux systems and clusters, IPv6, BIND DNS, DHCP, PXE, TFTP, NFS, qmail, OpenSSH, iptables, Linux kernel.

Open source contributions available at github.com/rajiv. Managed the open sourcing of numerous Ruby on Rails plugins and patches to Rails core.

Pursuits

Regular presenter at Boston-area Linux user groups and MIT IAP.

Eagle Scout with Bronze Palm, Greater New York Councils, Boy Scouts of America.