Ryan Kosai, Senior Software Engineer
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Summary

I am an award-winning software professional, based in Seattle. Experienced as both an individual contributor and team leader, my background includes internet telephony, data mining, and the consumer web.

Work History

Lead Developer, Number Management | Marchex, Inc. (Aug/11 – Present)

Team lead and primary developer responsible for building and testing Marchex's core VoIP platform. Led a team of five engineers (dev+qa) to sunset and replace several legacy services, coordinating feature development, testing, and the migration of customers to the new system.

Moderated architecture discussions, guiding the team to a viable design while encouraging all team members to be involved in the process. Mentored the team and coordinated projects so each person worked on tasks most likely to contribute to his growth. As a senior engineer, I also provided technical guidance across several teams, as the subject matter expert on our core technologies.

Senior Software Engineer | Marchex, Inc. (Apr/10 – Aug/11)

Individual contributor on a telephony platform routing millions of calls per day. Mentored developers, interviewed potential hires.

Lead developer on the redesign and implementation of the company's VoIP router, a platform shared by several product groups. Worked closely with several collaborating engineering teams to understand and accommodate detailed requirements.

Lead Developer & Founder | Athleon.com (Feb/07 – Apr/10)

Singlehandedly built alpha product in Perl, HTML, CSS, JavaScript, and Flex (LAMP stack). Defined product strategy, road map, and technical vision. Raised half a million in angel and venture financing, then recruited and led a four-developer team to build a product serving hundreds of thousands of coaches and athletes.

Awards and Honors

Marchex: Marchex Venture Award – Team Award, Lead (Q3'11) ; Marchex Blue Arrow – Individual Award, Engineering (Q2'11) ; Marchex Blue Arrow – Team Award (Q2'11) ; Perl "Golf" Tournament – First Place (2010)

Athleon: UW Business Plan Competition 2008 – Best Consumer Product ; UW Business Plan Competition 2008 – Herbert B. Jones 2nd Place Prize ; DFJ Venture Challenge 2008 – Finalist ; MIT Venture Forum Startup Demo – First Place (Dec. 2007)

University of Washington: Mary Gates Research Scholarship (2006) ; UW Engineering Biomaterials Research Scholarship (2005) ; Mary Gates Honors Scholarship (2003, 2004) ; UW President's Scholar Award (2003, 2004) ; Robert C. Byrd Honors Scholarship (2003, 2004, 2005, 2006)

Open Source Projects

Algorithm::LinearFit::Random (Perl + C)

Perl module to estimate a multiple linear regression in n-dimensional space. This is typically most useful in inconsistent, overdetermined matrices where the "best fit" line is desired. Runs 100 times faster than the pure Perl equivalent. *http://www.github.com/rkosai/LinearFit-Random/*

sqltidy (Perl)

Useful tool to reformat SQL in an aesthetically pleasing way. Handles complex syntax including deep-nested subqueries and joining to a subselect. *http://www.github.com/rkosai/sqltidy/*

Patch to OpenSIPS (C)

Eliminates memory leaks in "unsafe" module functions. This patch has been used in a production environment routing millions of calls per day. *http://www.ryankosai.com/patch/opensips.diff*

Education & Skills

B.S. Electrical Engineering
University of Washington, 2007. Specialization in analog circuits & biomedical device design.

13 Years of Development Experience
Linux, Apache, Perl, git, vim. Oracle, MySQL. XHTML/CSS, XSLT, JavaScript, Flex.