Dan Rosen

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MISSION

My most rewarding experiences come from being a multiplier. I've been very lucky to work with teams of engineers at all experience levels, to learn from them, to teach and encourage them in return, and to debate and develop effective solutions to the most important problems with them. My goal is to continue growing as a builder and leader—fostering each team member's confidence, satisfaction and growth—while advancing the state of the art in how we engineer distributed systems.

TECHNICAL SKILLS

Scala: Scalaz, Spray, Akka, Finagle, ScalaTest, ScalaCheck, Shapeless, SBT
Java: Guice, Jersey, Jackson, JUnit, Hamcrest, Mockito, Maven
Other languages: Haskell, JavaScript, C/C++, SQL
More useful stuff: JIRA, Hadoop (Cascading, Scalding), Explaining monads, Rebooting things

MODERN HISTORY

Twitter · Tech Lead / Engineering Manager. San Francisco, CA   04.2013 - 10.2015
Managed teams responsible for Twitter's REST API, including auth, rate-limiting and Scala frameworks
Directly responsible for over 100k API requests per second, at a success rate over 99.99%
Led decomposition and porting from Ruby to Scala, to improve stability and dramatically reduce OPEX
Moved API services from dedicated hosts to Mesos, for more efficient hardware utilization
Fixed sporadic authentication outages by porting backend from MySQL to "Manhattan" distributed storage
Implemented API reliability and performance dashboards, used as a template for all new services
Provided one-on-one coaching and performance management for engineers ranging from interns to senior staff
Facilitated debates about distributed systems, functional programming, dependency injection and testing
Taught "Scala School" course to hundreds of engineers, to help them quickly become effective contributors

Marakana · Expert (Instructor). San Francisco, CA   11.2011 - 04.2013
Researched, developed and delivered new training courses on Scala, Hadoop and JAX-RS
Modernized Marakana's Java courses, including fundamentals, concurrency and web development
Community events: organized the SF Scala meetup, and production of NEScala 2012 conference videos
Business development: spearheaded Scala training partnership with Typesafe (now Lightbend)

Atlassian · Senior Java Developer / Developer Advocate. San Francisco, CA   03.2010 - 08.2011
Wrote plugin development tutorials, documentation, presentations and blogs
Maintained cross-product plugin SDK and built the "Developer" tab in the Universal Plugin Manager
Designed and built plugin usage tracking dashboard for the Atlassian Plugin Exchange (now Marketplace)

Coverity · Senior Software Engineer / Sales Engineer. San Francisco, CA   09.2006 - 04.2009
Planned and executed technical strategy for major customers, closing over $1.5 million in product sales
Led training sessions on software quality, static analysis theory, reporting accuracy and other topics
Developed fast virtual function call resolution and checkers for static defect detection in COM code
Designed and delivered Visual Studio and Eclipse IDE plugins, directing a team of offshore developers

ANCIENT HISTORY

Cloudmark · Software Engineer. San Francisco, CA   08.2004 - 12.2005
Developed four novel fingerprinting algorithms for email spam and virus detection
Wrote i18n/l10n framework from scratch, and internationalized client applications

AOL Music · Software Engineer. San Francisco, CA   02.2003 - 12.2003
Led four-person client development team for AOL Music's internet radio services
Implemented subset of XPath query language to simplify processing of XML metadata snippets

DoCoMo USA Laboratories · Research Engineer (Contract). San Jose, CA   04.2002 - 12.2002
Researched new programming models for multimodal application development and deployment
Designed and built prototype system enabling roaming, offline use of multi-platform web applications

Netscape Communications / AOL · Software Engineer. Mountain View, CA   07.2000 - 09.2001
Represented Netscape to the W3C XSL group; contributed to XSL 1.0 and XPath 2.0 standards
Contributed to Mozilla's cross-platform UI toolkit and embedding API

EDUCATION

Brown University · Providence, RI   09.1996 - 05.2000
Awarded Bachelor of Arts with Honors in Computer Science, May 2000
Received Senior Prize in Computer Science, funded by the William Gaston Premium Scholarship
Received Honors in Computer Science for thesis work, "Topics in Markup and Software Engineering"