

reddit.com

Chief Architect and Lead Technologist
Operations Manager

San Francisco, CA
January 2011 to Present
March 2007 to January 2011

- Responsible for all technology – system architecture, hiring, managing, capacity planning, budgeting, operations, vendors, maximizing automation while minimizing infrastructure. Oversaw a 30X traffic growth and a five-fold growth in infrastructure. Expert in virtualized environments (aka Cloud Computing) and rapid website scaling.
- Involved in the design and testing of all major site features, marketing, determining new product directions and ideas, writing open source code, promotion, management of a 18M+ user community, etc.
- Expert on the system end-to-end, requiring learning and integrating new technologies quickly.
- Built the tools to support 1B+ page views per month with just one system administrator – a set of tools to reduce code deployment time from 30 minutes to 1 minute; a monitoring infrastructure to send alerts before problems become critical, including self-healing to minimize operator involvement; tools to monitor traffic in real-time.
- Planned and carried out a move of reddit's servers from Boston to San Francisco with no downtime and then 1.5 years later planned and executed a move of reddit's servers from colocated hosting to Amazon's EC2.
- Designed, implemented and currently maintain a white-label embedable voting widget based on reddit technology that brings in millions of dollars in revenue annually. Used for interactive advertising that was nominated for the Best Interactive Advertising Webby Award.

eBay, Inc.

Senior Systems Engineer
Senior Information Security Engineer

San Jose, CA
July 2006 to March 2007
July 2003 to June 2006

- Responsible for the daily operation of eBay's development lab. Projects in the lab were Proof-of-Concepts for hardware and software with bleeding edge technology and worked closely with the developers and architects to help plan what eBay's hardware will look like in a three year time-frame.
- Protected 210+ million users from external threats and the security of the largest transactional e-commerce system in the world. Developed fraud detection and prevention software (patent pending); investigated computer crime; ran the IDS and log aggregation/correlation system; served as a security consultant for the entire organization as well as customers. Developed and tested the fraud prevention technology in the eBay toolbar.
- Deployed eBay's authenticated email infrastructure: created our Sender Policy Framework entries, defining eBay's record as the standard format for large mail installations. Worked with vendors to define the DKIM standard and create use cases.
- Designed and developed an automated Sarbanes-Oxley (SOX) data collection program in Perl to replace the scripts provided by Price Waterhouse Coopers, saving the company thousands of dollars

Sendmail, Inc.

Network / Security / Systems Administrator

Emeryville, CA
December 1999 to August 2001

Yellow Phoenix Consulting

Consultant / Principal

Berkeley, Santa Clara, and Cupertino, CA
August 2001 to Present

University of California, Berkeley

Special Projects Coordinator

Berkeley, CA
August 1996 to November 1999

SELECTED TALKS & PRESENTATIONS

Velocity – <i>War Stories: The mistakes we made and how you can avoid them</i>	Santa Clara, CA, Jun 16, 2011
Interop – <i>Understanding Big Data (Co-presenter)</i>	Las Vegas, NV, May 9, 2011
Interop – <i>Real World Case Study – reddit.com</i>	Las Vegas, NV, May 8, 2011
Cloud Connect – Track Chair: <i>Data and Storage</i>	Santa Clara, CA, Mar, 2011
Cloud Connect – <i>How reddit Manages Their Data</i>	Santa Clara, CA, Mar 9, 2011
Web 2.0 NYC – <i>Are You (or your company) Naughty or Nice? (Online Reputation)</i>	New York, NY, Sep 29, 2010
Interop – <i>Clouds and Enterprises: Lessons Learned – Panelist</i>	Las Vegas, NV, Apr 28, 2010
Cloud Connect – <i>Keynote Speaker – Why Cloud Computing?</i>	Santa Clara, CA, Mar 17, 2010
Amazon Invited Speaker – <i>How Amazon Can Better Use EC2</i>	Seattle, WA, Feb 26, 2010
Pycon – <i>Scaling your Python Application on EC2</i>	Atlanta, GA, Feb 19, 2010

EDUCATION & TRAINING