

# Ryan Finnie

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## Core Skills

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- Linux (Debian, Ubuntu, RHEL)
- Perl, PHP, Python scripting
- Apache, nginx, lighttpd web servers
- MTAs (Postfix, qmail, Sendmail)
- Databases (MySQL, PostgreSQL, Oracle)
- Version control (CVS, Subversion, Git)
- SSL, certificate systems
- Mass systems deployment
- Linux OS design and development
- IP phone system networking (Asterisk)
- Virtualization (ESX, Xen, UML)
- Layer 1 networking (Ethernet, ATM)
- IP networking, IPv6
- Cisco IOS, CatOS, PixOS
- Firewalls (iptables, Pix/ASA)
- SNMP management
- DNS (ISC BIND)
- Static routing, OSPF, HSRP
- VLAN networking (802.1q, ISL)
- HTTP, SMTP, FTP, IMAP, POP3
- Network monitoring (Nagios, MRTG)

## Experience

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### Viddler

Reno, Nevada, United States

*Datacenter Systems Administrator (contract)*

July 2011 - Present

- Managed systems and network operations in two datacenters, handling equipment purchase decisions and deployments
- Managed an IP transit migration between carriers within a datacenter
- Deployed new virtualization solutions
- Administered systems within a provider-agnostic infrastructure — traditional servers, in-datacenter virtualization, EC2/S3, commercial VPS

### Joplin Tornado Recovery Task Force

Joplin, Missouri, United States

*Volunteer*

May - June 2011

- Walk-on volunteer position, assisting in relief and clean-up efforts following the Joplin tornado of May 22, 2011, coordinated by AmeriCorps relief teams
- Worked in the field, removing debris within the disaster zone
- Manned the missing persons hotline, taking missing person reports to be sent to search and rescue teams
- Worked in the donations warehouse, unloading, sorting and loading pallets of donated goods

### One to One

Acquired Twelve Horses, September 2009

Reno, Nevada, United States

*Datacenter Network Administrator*

Sep 2009 - May 2011

- Worked with One to One IT staff to complete infrastructure integration between One to One and Twelve Horses
- Managed integration of One To One offices' phone networks into a unified multiple-site Asterisk-based IP phone network
- Managed consolidation of Twelve Horses datacenter operations into One to One's datacenters

## **Twelve Horses**

Reno, Nevada, United States

### *Network/System Administrator*

Jul 2004 - Sep 2009

- Maintained network and approx. 150 Linux servers between two datacenters
- Built and deployed customer dedicated servers
- Researched and recommended network and system upgrades and new networks, as needed
- Installed network monitoring, graphing and network configuration tracking tools
- Migrated operations and infrastructure to a new datacenter
- Designed server virtualization solution for consolidated server management
- Built a multiple-site IP phone network infrastructure using Asterisk

### *Network Administrator (contract)*

May 2004 - Jun 2004

- Managed Redundant Networks' datacenter operations until the datacenter property could be sold
- Assisted remaining Redundant Networks customers

## **Redundant Networks**

Reno, Nevada, United States

### *Senior System Administrator / Lead Network Engineer*

Nov 2003 - Feb 2004

- Promotion, reported to Director of Network Operations
- All Senior System Administrator functions and responsibilities; in addition:
- Migrated Foundry customer access routers to Cisco
- Configured IOS changes for customer installs/changes as needed
- Designed inexpensive failover router setups for customers using Linux/VRRP
- Migrated servers from Red Hat Linux 7.x to a custom distribution based on Gentoo Linux
- Assisted with deploying iBGP within the Reno core network
- Remained after operations were discontinued to assist with customer migrations and network teardown

### *Network Operations Manager*

Sep 2003 - Oct 2003

- Temporary assignment, reported to COO/President
- All Senior System Administrator functions and responsibilities; in addition:
- Delegated tasks and projects to Network Operations personnel
- Oversaw customer installations and network changes
- Represented Network Operations to executive staff, the company and the public
- Handled Network Operations scheduling and staffing
- Interviewed candidates for Director of Network Operations

### *Senior System Administrator*

Mar 2002 - Sep 2003

- Reported to Director of Network Operations
- Developed an MIS network for two new datacenters
- Managed 40+ Linux/Solaris servers across two coasts
- Set up network monitoring and ticketing systems
- Managed internal employee network
- Wrote custom network billing and power control systems
- Assisted customers with datacenter move-ins and network designs
- Developed and maintained private and public wireless networks in Reno facility
- Managed backup systems for both datacenters
- Installed satellite offices' networks
- Participated in Reno-area tech community via RLUG and RAWUG
- Maintained open source/community mirrors and development environments

**Kefta, Inc.**

San Francisco, California, United States

*Application Developer*

Jul 2000 - Mar 2002

- Developed referral marketing applications with PHP, Python and Perl
- Worked to develop marketing tie-in solutions for enterprise-class customers
- Implemented Oracle schemas for both user interaction and backend processing jobs
- Created a Python-based web server for rapid execution of user interaction requests
- Tested peer code in a strict quality control environment
- Maintained and developed kmMail, an open-source version of Kefta's webmail system

## **Associations and Projects**

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- Official Debian Maintainer
- SAGE member (System Administrators Guild, a USENIX SIG)
- Electronic Frontier Foundation member
- Created Finnix, a leading Linux LiveCD for system administrators
- Created 2ping, a bi-directional ping utility that can determine directional packet loss

This résumé is available at <http://www.finnie.org/resume.html>