



## Objective

To obtain a position that will provide challenging opportunities in the area of system administration, distributed computing and service management. My ideal position would be one that takes advantage of my experience, creativity and strong ability to learn new technologies quickly.

## Education & Publications

### M.S. In Computer Science, May 2008

Emphasis in Network Systems and Virtualization  
University of Colorado, Boulder, CO  
Cumulative GPA 3.80

### STORM: Simple Tools for Resource Management

USENIX ;Login: Article, February 2009, Volume 34, Number 1

### STORM: Simple Tools for Resource Management

USENIX, Large Installation Systems Administration, Nov. 2008

## Experience

### University of Colorado at Boulder, June 2008 – Current

Application & Research Manager

Hired to ensure the smooth operation of critical business applications, supervision of server administration, and development of new technologies for capturing and distribution of lecture video content for CU Engineering Online.

#### Key Contributions:

- Built & administered a small cluster of Linux servers to support education, research in networking technology and distributed video processing & encoding
- Improved performance for video delivery by developing integration with Amazon Web Services to distribute large lecture video files via their content delivery network (CloudFront)
- Provided leadership & management of a small team of technical staff
- Lead project to upgrade A/V technology for a broadcast grade recording studio
- Developed tools for automation of video transcoding, processing, and quality assurance

### University of Colorado at Boulder, August 2005 – June 2008

Linux System Administrator

Brought on to act as the lead System Administrator for the Computer Science Educational Labs, which consisted of numerous Redhat Linux workstations & servers dedicated to the purpose of supporting the undergraduate educational mission of the Computer Science department.

#### Key Contributions:

- Developed & implemented a NFS root mount system with copy-on-write to a tmpfs for improved security & to ease administration of workstations and servers
- Virtualized and consolidated server infrastructure using Xen
- Hired and managed lab assistants to provide additional support
- Wrote grants to acquire additional funding for purchase of new servers & workstations

### Advantage Business Computers Inc., January 2000 – August 2005

Networking Technology Coordinator

Consulted with client companies to provide expertise in Networking Technologies & Web Development. Clients included: Gannet Company Inc., Southwest Florida International Airport, Geraci Travel, Lee County Port Authority, First Home Builders, Tom Green Live, and Broadway Palm & Dutch Apple Dinner Theatres.

#### Key Contributions:

- Developed, & deployed a Linux based spam & e-mail filtering appliance for multiple customers
- Engineered and coordinated several new network installations
- Provided daily System Administration of Linux based web hosting services
- Developed a web based on-demand video indexing & streaming service for an Internet T.V. show
- Constructed a multi-site persistent VPN to link together office locations in different states

## Skills

### Programming, Scripting & Design Languages

C, C++, Java, UML, XML, Visual Basic, .NET, SQL, PHP, Perl, Python.

### Operating Systems

Windows 9x/NT/2K/XP/2003, Linux 2.4 - 3.0 (Redhat Enterprise, CentOS, Debian, & Ubuntu), OpenBSD.

### Protocols

Ethernet, IP, TCP, UDP, DHCP, 802.11, SMTP, FTP, SSH, DNS, SNMP, Netconf, Netflow, XML-RPC, iSCSI, NFS

### Other Expertise

OpenVPN, Watchguard Firebox, Samhain, Syslog-NG, Kickstart, Nessus, Nmap, pdsh, iptables, pf, shorewall, Xen, VMware vSphere 4 & 5, Cisco IOS, Metasploit, FFmpeg & Mencoder, GlusterFS.