

## Objective

To exercise and expand my systems engineering skills in a challenging and rewarding environment.

## Skills

- Unix Administration (14 years experience): Linux, Solaris, MacOS X, FreeBSD, OpenBSD, Irix, and AIX.
- Server Software: Apache, BIND, Cacti, Cfengine, Ganglia, Hadoop, KVM, LDAP, Lighttpd, MySQL, Nagios, NFS, NIS, Oracle, Postfix, Puppet, Samba, SELinux, Sendmail, Symantec NetBackup, Veritas Foundation Suite, VMware ESXi, VMware vCenter, WebSphere, and Xen.
- Server Hardware: Dell PowerEdge, HP ProLiant, Oracle/Sun, and SuperMicro.
- Other Computing Hardware: Cisco network devices, Isilon IQ clusters, NetApp filers, F5 BIG-IP traffic managers, and Avocent/Cyclades console servers.
- Proficient in system administration practices:
  - storage management
  - TCP/IP networking
  - performance tuning
  - backup management
  - email administration
  - fault analysis
  - system automation
  - security management
  - communicating with users
- Programming (17 years experience): C, C++, Python, Perl, Java, Ruby, OCaml, Bourne Shell, and Scheme.
- Keen problem solving skills, a knack for troubleshooting, and an uncanny correlative memory.

## Employment History

**OTC Markets**, New York, NY; June 2011–Apr 2013

*Senior Infrastructure Engineer*

- Managed ~120 Linux and Solaris servers across three data centers
- Provided 2nd-tier support for the applications that comprise OTC's electronic securities marketplace
- Virtualized systems using VMware vSphere and Solaris zones for greater efficiency and ease of management
- Standardized and automated system configuration with Puppet
- Installed and configured Symantec NetBackup; devised backup policies and schedules
- Planned the migration of our production systems onto a redesigned, next-generation network in a new, secured space
- Specified purchases of new servers and supporting hardware, including network cables, power cables, power distribution units, label printer, tools, workspace and storage furniture
- Developed procedures for new hardware installation

**Autonomy**, New York, NY; October 2010–June 2011

*Senior Systems Administrator, Autonomy Optimost*

- Managed Linux servers running a distributed, high traffic web service
- Supported a highly-available clustered LAMP application used by our clients
- Expanded the computing environment by adding clustered MySQL database servers for fault tolerance; developed procedures to migrate data to new database servers while minimizing downtime
- Set up automated backups and system monitoring
- Provided IT support in New York and Boston offices

**Jane Street Capital**, New York, NY; March 2007–June 2010

*Quantitative Systems Engineer*

- Managed 200+ Linux servers in an environment that demanded high availability and rapid adaptation to changing market circumstances
- Automated system management, monitoring, and backups, using a combination of open-source software and custom code
- Optimized production servers for maximum throughput and minimum latency
- Participated in code review of configuration management and performance monitoring tools
- Responsible for monitoring and troubleshooting of incoming market data feeds, as well as logging, processing, and storage of market data for research use

**TargetRx**, Horsham, PA; June 2005–February 2007

*Production Systems Administrator*

- Responsible for managing Sun servers, NAS/SAN storage, tape backup systems, and network infrastructure in a growing environment
- Assisted in Windows 2000 desktop and server administration
- Implemented comprehensive systems for configuration management on all platforms
- Improved systems for server performance, integrity, and fault monitoring

**The Vanguard Group**, Valley Forge, PA; July 2001–June 2005

*Unix System Administrator (August 2003–June 2005)*

- Administered 250+ Sun servers at two data centers
- Served in on-call rotation providing 24×7 support
- Led the project to spec and build Vanguard's Linux computing environment
- Wrote scripts to automate system management
- Performed installations, upgrades, and emergency maintenance

*2nd-tier Unix/RDBMS Support (July 2001–August 2003)*

- Provided technical support to Vanguard's IT and business departments
- Monitored Vanguard's Unix environment
- Troubleshot problems in Solaris, iPlanet, WebSphere, Sybase, and Oracle

**UPenn School of Arts and Sciences Computing Services**, Philadelphia, PA; May 1999–May 2000

*Part-time System Administrator*

- Administered Solaris, Linux, Irix, and AIX servers
- Performed installations and upgrades
- Managed security and backups
- Provided user support
- Developed a suite of CGI scripts for use by the business office

## Certifications

- Sun Certified System Administrator and Network Administrator for Solaris 8
- Red Hat Certified Engineer for Red Hat Enterprise Linux 4

## Education

**University of Pennsylvania**, School of Engineering and Applied Science. Awarded B.S.E. May 2001. Major: Computer Science and Engineering; minors: Cognitive Science, Mathematics.

References available upon request.