

# JASON PARROTT

<https://github.com/fanatic>

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## Background

- 10+ year experienced Linux administrator building and maintaining reliable, elegant, and supportable systems

## Professional Experience

- **Lead Unix Systems Engineer** June 2008 - Present  
*FactSet Research Systems* Norwalk, CT
  - **Operations**
  - Maintained and supported 1000+ Red Hat Enterprise Linux and Oracle Solaris servers
  - Led architecture and creation of server build and installation automation leveraging *DNS*, *PXELinux*, *Kickstart*, *Ruby on Rails*, and tight integration with internal ticketing system and monitoring systems.
  - Security - regular patching, Ksplice, reboot coordination, errata/rhn integration,
  - Backups - NetBackup, Sun StorageTek L700, Exagrid, format migration
  - Virtualization - Xen, KVM, VMWare, OpenStack, AWS; PaaS: Heroku, Docker, LXC (Internal PaaS architecture - golang)
  - Storage - Netapp, Isilon, Oracle ZFS, iSCSI, SAN, Swift Object Storage
  - Migrations - Old → new hardware, Solaris → Linux, Physical → Virtual w/ communication, organization, responsiveness
  - Configuration Management - CFEngine, Git, Gerrit
  - **Architecture**
  - Inventory collection, integrating internal and third party apis
  - virtual serial point concentrator Java
  - MySQL environment architecture, elasticsearch, Vertica
  - Mainframe to SOA
  - Client Data (distributed systems)
  - Observability
- **Research Lab Staff** May 2005 - May 2008  
*ECE/CIS Department, University of Delaware* Newark, DE
  - Maintained and supported 700 Solaris, Windows, Linux, and Macintosh desktops and servers
  - Built, configured, and maintained several undergraduate computer laboratories, research clusters, and servers for faculty and graduate students using *UNIX shell scripting*, *C programming*, *MPICH*, and Linux/Solaris system administration skills
  - Performed daily backups and quarterly archives using *Bacula*, *Amanda*, as well as custom Bash and batch scripts based on rsync
  - Developed web-based projects such as a trouble ticket system, network monitoring application with *mrtg*, backup information page, and software licence database using *php*, *python*, and *mysql* with *html*, *css*, and *ajax* using a *subversion* code repository
  - Developed console-based projects such as a *procmail* and python based email parser and systems information database using *RCS* revision control
  - Installed and upgraded megabit and gigabit wiring in several campus buildings
  - Developed wiki-based documentation site for documenting lab procedures and a Trac-based documentation site for software projects
- **Owner/Webmaster** March 1999 - August 2006  
*Superiorserve* Wilmington, DE
  - Designed, built, and maintained company web site
  - Worked on-site to troubleshoot desktop computer malfunctions

- **IT Assistant** Summer 2004, Summer 2005  
*Advanced Power Control, Inc.* Newark, DE
  - Installed and configured Windows machines for HVAC automation control
  - Repaired employee Dell brand laptops and desktops under a Premier Access Technician certification

## Education

- **University of Delaware, Newark, DE** May 2008  
*Cumulative GPA 3.782/4.0*
  - B.E.E., Electrical Engineering (GPA 3.822)
  - B.S., Computer Science with Honors (GPA 3.917)
  - Minor: Mathematics

## Honors and Awards

- **Honors Organizations:** Alpha Lambda Delta, NSCS, Upsilon Pi Epsilon (CS), Tau Beta Pi (Officer, Eng), Eta Kappa Nu (Officer, EE)
- **Scholarships:** Delaware Governor's Scholar, Delmarva Power Scholarship, University Honors Program Scholarship, Peter J. Warter Scholarship, Liston A. Houston Scholarship, Marching and Pep Band Scholarships

## Leadership Experience

- Delaware Linux User Group (President) 2005-2008
- Marching & Pep Band (Staff) 2004-2008
- ACM International Programming Contest (1st at site, 18th in mid-atlantic) 2005