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An experienced technology professional who’s been deploying, tinkering, and developing on Linux platforms since middle school. Possesses excellent problem-solving abilities, and a wealth of knowledge about the Linux platform, and the open source universe in general. A proven track record of innovation and success in a variety of technical projects, from the very small to the very large.

- Server administration (VM, physical, cloud)
- Continuous Integration/Delivery Infrastructure
- Application and server monitoring
- Troubleshooting + diagnostics
- Fluency in the open source world
- Automation and configuration management
- Programming/Scripting
- Web server setup and maintenance
- DevOps/Infrastructure Engineering

Specific Technologies:

- Linux: various flavors
- Bash
- Basic Relational DB
- AWS - various
- Basics of Win Server + AD
- Ansible
- Python
- Hadoop
- OpenSSL
- Git/Gitlab/Jenkins
- Nginx
- DNS/DHCP
- Desktop Linux
- Docker (with Swarm/cluster mode)
- Apache web + Tomcat
- SNMP/Nagios Monitoring
- Ubuntu/Debian servers

Professional Experience:

• **Rocky Linux – Release Engineer/Developer (Part time): December 2020 – Present**

Part time, volunteer work only. I perform various technical tasks for the project, such as package builds, related debugging, Raspberry Pi release, tool development for quality control, bootstrapping new major releases, and many more tasks. This role acts as a kind of “ongoing intensive training” for me – building a Linux distribution is tough!

• **NC Administrative Office of the Courts (NCAOC) – Linux+Cloud Architect: November 2016 – Present.** Responsible for the growing Linux and cloud environment here at the court system. Wearing too many different project hats to count, but some typical technologies I work with day to day: Bash shell (of course), Ansible, SNMP, Hadoop Big Data (Cloudera), multiple Docker environments, LAMP stacks, and Linux SSSD/AD/LDAP integration. Recently added a new cloud environment featuring serverless design: ECS/Fargate, Aurora, and related load balancing. Common tasks involve patching, scripting, monitoring, provisioning, and troubleshooting our growing Linux footprint. A true hybrid engineering role: I juggle a wide range of technical responsibilities, including mentoring other technical staff.

- **North Carolina Dept. of IT Linux Systems Administrator/Team Lead: June 2014 – November 2016.** Like many Linux admin positions, responsibilities vary wildly. Some of the main ones: New Red Hat systems deployment, scripting + automation (Ansible, Bash, etc.), monitoring, (CA SystemEdge, Nagios, Cacti) and Red Hat Satellite management. Responsible for storage and VM management with hardware SAN, ESXi/Vmware, and Red Hat Enterprise Virtualization trial setups. Troubleshooting for a wide range of technologies occurs almost daily, including: Linux OS issues, network failures/performance, storage setup/tuning, (LVM + SAN or NAS) and too many others to list.
- **Lulu Inc.** IT Systems Administrator June 2011 – June 2014. Position covered a wide range of responsibilities and tasks. Gained valuable knowledge about management of production IT systems, including: minimization of downtime, redundancy/scalability best practices, and the principals of backups and storage management. Opportunity to work for a smaller enterprise with some unique storage requirements: 340+ TB. Some of my day-to-day tasks and technologies involved: Backup/tape library management (including offsite/disaster planning), Linux administration/troubleshooting (almost exclusively RHEL 4-6), Hardware repair and purchasing, VMWare cluster management, various network/database tasks involving Juniper firewalls and Oracle/Postgresql/MySQL, and storage administration/troubleshooting (NetApp/Isilon SAN).
- **Tekelec Corp.** Junior Software Engineer (coop position) May 2007 – December 2007, August 2008 – September 2008. This position was part of the cooperative education program for engineering students at NC State University. My duties at Tekelec exposed me to the world of professional software development. It emphasized the importance of thorough testing and rock-solid reliability in code. The products were written mainly in C++, with a dash of PHP and Python. Everything was built with the GNU toolchain (g++/gcc, make, gdb, etc.) on modified Red Hat systems with IBM's ClearCase version control. Tekelec delivers world-class telecommunication solutions (including SMS and voice data routing), and the software was built to support that.
- **NC State Dept. of Soil Science IT Department** May 2008 – August 2008. Supported over 50 end users (Windows XP) while performing major upgrades to the department website and database infrastructure. Used networking knowledge, LDAP, MySQL, PHP, and various scripting languages to keep users running and the website updated.
- **E115 (Intro to Linux/Unix and Computing Environments) instructor, NC State University,** August 2006 – December 2006 (one semester) Duties included lecturing, grading, and helping students on computing topics such as: Linux/Unix commands, XHTML, OpenOffice.org productivity, and computer hardware.
- **National Climactic Data Center (US Government, division of NOAA)** (Asheville, NC): May 2005 to August 2005, and May 2006 to August 2006. Duties (over both summers) included archiving old equipment, maintaining and updating various web pages, and the creation of online inventory/reporting systems using PHP, Perl, and MySQL

Education/Certifications:

- Bachelor's Degree, Computer Science (NC State University, Raleigh NC)
- Red Hat Certified Engineer (RHCE)
- Red Hat Certified Systems Administrator (RHCSA)