

Carl George

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Linux Systems Engineer

I am a Linux geek who was lucky enough to turn my hobby into my job. A strong foundation of troubleshooting skills enables me to quickly adapt to new technologies. I am passionate about sharing knowledge through documentation, training, and mentorship. The Open Source ideals of collaboration and shared success drive me to improve myself, the communities I participate in, and the systems I maintain.

Technical Skills

Package Management

- RPM ecosystem: yum, dnf, repoquery, rpmbuild, mock, creatrepo_c
- Debian ecosystem: apt, apt-get, apt-cache, apt-file
- Arch ecosystem: pacman, makepkg, mksrcinfo, makechrootpkg
- Python ecosystem: setuptools, pip, distutils
- PHP ecosystem: pecl, pear

Network Services

- webservers and proxies: Apache HTTPD, Nginx, Caddy, HAProxy
- databases: MySQL, MariaDB, MongoDB, Redis, PostgreSQL
- file servers: NFS, Samba
- mail: postfix, dovecot, opensmtpd

Linux System Management

- disk partitioning and logical volume management
- filesystem creation and management
- user and group management
- permissions management and access control lists
- systemd unit files (services, sockets, timers)
- scripting: Bash, Python
- containers: docker, podman, buildah
- configuration management: Ansible, Salt
- KVM and Xen virtualization
- Openstack client/API consumption
- Red Hat Cluster Suite

Hardware

- RAID storage
- ethernet and fiber optic cabling
- network diagnostics
- electronic repair
- equipment inspection
- periodic maintenance tracking

Intangibles

- passion to continue learning
- desire to solve problems and own issues until resolution
- strong written and verbal communication skills
- ability to communicate technical issues to nontechnical audiences

Employment History and Work Experience

Linux Systems Engineer

Rackspace, 2014-present, San Antonio, TX

- Created and maintained RPM packages for IUS, EPEL, and Fedora.
- Maintained build and repository infrastructure for the IUS project.
- Added new packages to IUS and EPEL based on customer and coworker request.
- Enabled better customer outcomes by having necessary software packaged and available.
- Enabled customers to use newer versions of select RHEL packages.
- Expanded documentation for IUS project.
- Collaborated with upstream projects to report and resolve bugs in packaged software.
- Created [uvalde](#), a yum repository curation tool.
- Created [repomd](#), a Python library for parsing yum repository metadata.
- Created [umirr](#), a mirror manager application.
- Created a Drone CI plugin for [automated RPM builds in docker containers](#).
- Tailored JIRA instance to reflect workflow, implementing custom issue types, workflows, statuses, and more.
- Wrangled issues in Bugzilla, GitHub, and JIRA as appropriate.

Linux Systems Administrator

Rackspace, 2011-2014, San Antonio, TX

- Triageed emergency situations for multiple customers during after-hours shift.
- Routinely performed senior level work as an entry level administrator.
- Promoted ahead of peers based on multiple strong performance reviews.
- Shared knowledge with peers by contributing to the company wiki.
- Mentored other administrators with formal and informal training to improve the overall technical ability of the team.
- Balanced workload between ticket queue, phone calls, escalations, and internal projects.
- Helped customers architect long-term solutions to complex issues.
- Developed custom Bash and Python utilities for customers to automate repetitive tasks.

Electronics Communication Systems Maintainer

U.S. Army, 2007-2011, Fort Sam Houston, TX

- Lead projects to install ethernet and fiber optic networks.
- Coordinated with contractors to provide network, domain, and account administration.
- Established standard operating procedure for unit's wireless communication equipment, providing guidelines for configuration and issue of satellite phones, radios, and cellular phones.
- Participated in search and rescue operation for a missing heat stroke victim during training operations.
- Assisted in mobilization effort for the 2010 Haiti earthquake relief effort.

Unmanned Aerial Vehicle Quality Control Manager and Systems Administrator

U.S. Army, 2005-2007, Fort Hood, TX and Camp Taji, Iraq

- Part of a maintenance team that ensured safe operation for over 18,500 combat flight hours of Shadow Unmanned Aerial Vehicle system.
- Performed troubleshooting and routine maintenance of the Ground Control Station, including hardware maintenance, software patching, and network troubleshooting between Solaris and Windows.
- Selected as a Quality Control Manager over more experienced peers due to high level of proficiency.
- Trained multiple Technical Inspectors to assist with enforcing standard operating procedures.
- Optimized unit's electronic maintenance system for technical accuracy and efficiency. Changes were later adopted by entire U.S. Army.

Intelligence Systems Maintainer

U.S. Army, 2003-2004, Fort Huachuca, AZ

- Trained and tested on concepts including troubleshooting theory, analog and digital electronics, radio communications, computer architecture, operating systems fundamentals, and network infrastructure.
- Diagnosed malfunctions in electronic warfare systems and equipment located at fixed stations and remote sites.
- Lead maintenance team in field exercises involving fault isolation, repair, and system reconfiguration.
- Graduated first in class in both Advanced Individual Training and Additional Skill Identifier Training.
- Earned Top Secret clearance to permit access to work on any system in the Army.

Training and Education

2015 - Linux Foundation Certified Engineer (**LFCE**), certificate LFCE-1500-0066-0200

2015 - Linux Foundation Certified System Administrator (**LFCS**), certificate LFCS-1500-0330-0100

2011 - Red Hat Certified Engineer (**RHCE**) for RHEL6, certificate [111-178-778](#)

2011 - Red Hat Certified System Administrator (**RHCSA**) for RHEL6, certificate [111-178-778](#)

2007 - U.S. Army Professional Leadership Development Course (**PLDC**)

2004 - U.S. Army Unmanned Aerial Vehicles (**UAV**) System Maintainer Course

2004 - U.S. Army Electronic Warfare Systems Maintainer Integrator (**33W**) School

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