

Carl George

Software Engineer

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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.

Primary Skills

RPM Packaging
Yum repository curation
Ansible automation
Webserver configuration
Database management

Containers
Python programming
Bash scripting
Systemd management
Disk partitioning

Employment History

Principal Software Engineer, Red Hat

2019-present, San Antonio, TX

- Built packages and modules for CentOS 8 and CentOS Stream 8.
- Created new CentOS release and repository packages to complete split of the distributions.
- Developed robust upgrade process for converting from CentOS 8 to CentOS Stream 8.
- Engaged with partners and community members to drive contributions to CentOS Stream 8.
- Collaborated with RHEL maintainers to merge CentOS modifications into RHEL packages to reduce non-value add work.
- Lead development of EPEL Next to solve EPEL package installation problems on CentOS Stream.
- Lead effort to deliver CentOS Stream 9 via MirrorManager.
- Modified CentOS delivery pipeline to enable downgrading packages via dnf.
- Created various scripts to streamline routine tasks related to package and module building.
- Maintained koji tag structure and build targets.
- Expanded team and public documentation.
- Created and maintained RPM packages in Fedora and EPEL.
- Fedora package reviews for partners and community members.
- Collaborated with upstream projects to report and resolve bugs in packaged software.
- Continuous engagement with CentOS, EPEL, RHEL, and Fedora communities.

Linux Systems Engineer, Rackspace

2014-2019, 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

- Triaged 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 Technician, 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