Carl George

Software Engineer

carl@george.computer

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	Containers
Yum repository curation	Python programming
Ansible automation	Bash scripting
Webserver configuration	Systemd management
Database management	Disk partitioning

Employment History

Principal Software Engineer and Team Lead, Red Hat   2021-present, San Antonio, TX

- Planned, coordinated, and implemented the launch of EPEL 9, which for the first time ever was completed months *before* the corresponding RHEL release.
- Engaged with peers, partners, and community members to curate a broad selection of packages in EPEL.
- Implemented and maintained policies and procedures as a member of the EPEL Steering Committee and the Fedora Packaging Committee.
- Sponsored new packagers into the Fedora project, providing ongoing mentorship on packaging standards.
- Resolved Fedora build failures related to major changes such as Python 3.11, Pytest 7, and OpenSSL 3.
- Refreshed Fedora Python spec files to the latest build macro standards.
- 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.

Principal Software Engineer, Red Hat   2019-2021, 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.
- Designed and created 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 all U.S. Army Shadow UAV units.

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