

Joshua Powers

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Software developer with over a decade of work experience in the high-tech industry focusing on Linux, quality, hardware, and data

Experience

Ubuntu Server Team

Remote

CANONICAL LTD.

Jul 2016 - Current

- Member of the cloud-init development team focusing on quality. Develop test automation suites, setup and configure CI/CD infrastructure and processes, and execute bug verification. Ensure quality across supported cloud providers like AWS, Azure, GCE, and Digital Ocean. Defect work across distributions, including Ubuntu, Debian, CentOS/Fedora, Arch Linux, and openSuse.
- Member of Ubuntu server development team driving the quality and testing of images, participate in daily bug triage, and develop merge requests for package uploads across all supported architectures. Touch multitude of software projects, both active and inactive, to reproduce issues, create fixes, and explore additional features with little or no guidance.
- Develop data metric collection methodologies using Prometheus to track specific key performance indicators. Present dashboard of metrics in Grafana to present team performance.
- Write and publish team weekly development summary to greater community. In addition, review and write more detailed technical blog posts on recent developments.
- Participate in broader relationship with internal and external partners around server team quality strategy.

Linux Distribution and Quality Lead

Fort Collins, Colorado

HEWLETT PACKARD ENTERPRISE

Feb 2014 - Jul 2016

- Architected Debian derivative distribution for use in products throughout the company. Lead the coordination and distribution architecture between development, support, security, and QA teams.
- Collaborated with internal and external partners to receive requirements, collect feedback, and share future work to collaborate on opportunities.
- Developed distribution tooling using existing Debian and other open source tools as well as develop additional tests, features, or tools as required. Includes CI/CD pipeline, testing, and distribution features (e.g. repository, ISOs, packaging, etc.).
- Led a team of four engineers with Kanban style task management, provided technical training, and general mentoring.

Software Quality and Test Development Lead

Fort Collins, Colorado

HEWLETT-PACKARD COMPANY

Jul 2012 - Feb 2014

- Acted as gatekeeper for release of new builds and releases and work with developers to close on blocking defects on HP's OneView, system management software solution.
- Developed Python based CLI tooling to interface with system management software's API.
- Designed and implemented daily smoke test and weekly regression tests to run against the product API, scalability testing to meet program requirements, concurrency-testing scenarios and scripts, and created manual and automated end-to-end tests.

Linux I/O Software Developer

Fort Collins, Colorado

HEWLETT-PACKARD COMPANY

Jun 2007 - Jul 2012

- Developed performance characterization testing methodology, which measures how network and storage I/O scale on HP's next generation mission-critical and enterprise servers, storage, and networking technologies.
- Established test requirements, test cases, and test plans based on knowledge of the solution to validate a quality product. Actively participated with internal and external partners through clear and concise communication to isolate defects and assume responsibility to drive defects to completion.

Education

Georgia Institute of Technology

Remote

MASTER OF SCIENCE IN COMPUTER SCIENCE

Jan 2014 - May 2016

- GPA 3.90/4.00

Colorado State University

Fort Collins, Colorado

BACHELOR OF ARTS AND SCIENCES IN ECONOMICS AND APPLIED COMPUTING TECHNOLOGY

2005 - 2009

- GPA 3.55/4.00