

# **Luther Barnum**

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## **Technical Skills**

- Virtualization & Containers: VMware, Docker, Kubernetes
- Configuration Management: Puppet, Chef, Ansible, Salt
- CI/CD: Jenkins
- Version Control: Git
- Monitoring & Logging: Nagios, ELK Stack, Zabbix, Datadog

## **Programming Languages**

Python, Perl, Ruby, Awk, Sed, BASH, C, SQL, Go (Golang), Rust

## **Operating Systems**

HP-UX 9 to 11.31, RHEL3 to 8, Sun 7/8, Linux SUSE, Windows Server, VMWare, MacOS

## **Certifications**

RHCE, Linux+, LPIC, Casper Technician (JAMF), Apple Certified Support Professional

## **Professional Summary**

- Possess strong troubleshooting skills, developed through extensive experience in military and manufacturing electronics, computer hardware, and software.
- Demonstrated success in managing and maintaining various software and hardware platforms.
- Proficient in programming languages, including Python, Perl, Ruby, Awk, Sed, BASH, C, SQL, Go (Golang), and Rust, with the ability to adapt and learn new languages as needed.
- Experienced in operating systems such as HP-UX (9 to 11.31), RHEL (3 to 8), Sun (7/8), Linux SUSE, Windows (2003-2019), VMWare, and MacOS.
- Skilled in virtualization technologies, including VMware, and backup solutions like Veritas NetBackup.
- Familiar with databases such as MySQL and web servers like Apache and Tomcat.
- Proficient in DevOps automation tools, including Puppet, Chef, Ansible, and Salt.

- Knowledgeable in various hardware components and systems, including motherboards, monitors, video cards, SCSI, SAN environment, Sun workstations, HP servers, and more.
- Holds multiple certifications, such as RHCE, Linux+, LPIC, Casper Technician (JAMF), and Apple Certified Support Professional.
- Motivated, detail-oriented, and committed to staying current with the latest technologies and methodologies in the field.

## Professional Experience

### **Blockspaces - Tampa, FL**

*Senior DevOps Engineer / Dec 2021 to Present*

- Managed 11,000-server POKT Blockchain Environment.
- Maintained Ethereum, Optimism, and Bitcoin Blockchain environments.
- Automated server deployment using Ansible, Bash, and Python across AWS, Alibaba Cloud, Digital Ocean, and Oracle Cloud.
- Administered Jenkins Environment and streamlined Pipeline builds for developers.
- Oversaw ELK Stack for application logging.
- Implemented application deployments using custom Docker containers and Kubernetes.
- Deployed and managed Hashicorp Vault.
- Supervised Datadog Cloud installation and monitoring.
- Installed and maintained Zabbix Environment.

### **Alphapoint - New York, NY**

*DevOps Engineer / Sep 2021 to Dec 2021*

- Administered Jenkins Environment and streamlined build automation for developers.
- Managed ELK Stack for application logging.
- Automated application deployments using custom Docker containers.

### **Vertex Aerospace LLC, Madison, MS**

*Sr. Systems Engineer / Dec 2019 to Sep 2021*

- Managed SolarWinds Monitoring Environment, including SQL Database maintenance and custom SWQL Queries.
- Administered Splunk Environment with custom queries and dashboards.
- Oversaw Elastic Stack Cluster Environment, including custom queries and dashboards, and data reception from Windows, Linux, and network devices.
- Managed SAP Linux environment running on RedHat Linux (RHEL 7 and RHEL 8).
- Automated server and application deployment in VMWare Environment using Ansible, Packer, Terraform, and Make.

- Automated bank transfers with Python encryption and decryption over SSH/SFTP connections.
- Managed AWS and Azure Gov environments using automation with Terraform, Ansible, and custom data transfer scripts.
- Maintained Gitlab server for version control of critical static environments.
- Conducted penetration testing with custom Docker tools and configurations.
- Managed F5 Cluster.

### **QTR Systems, Palm Harbor, FL**

*Senior Systems Engineer / Feb 2017 to Oct 2019*

- Managed Nagios Environment with 30+ OMD Workers and custom monitoring scripts in Shell, Python, Perl, and Go.
- Worked on various projects including software development, hardware engineering, quality assurance, DevOps, and technical support.
- Utilized .Net on Windows infrastructure, Azure, and iOS development with a focus on BLE RTLS.
- Implemented .Net on Docker infrastructure to support future migration.
- Led effort for troubleshooting Windows and Linux server performance using Wireshark, MongoDB, and RabbitMQ.
- Guided build process automation to reduce production server build times using Ansible and Desired State.
- Migrated storage to HP and EMC storage platforms and managed Hyper-V and VMWare environments.
- Automated Mac and iOS deployments using JAMF and AirWatch MDM products.
- Managed Ubuntu and CentOS/Redhat server deployments and maintained Docker environment.
- Performed network troubleshooting with Wireshark and TCPDump.
- Managed DNS environment in Active Directory and BIND.
- Earned Linux+, JAMF 300, and Apple Certified Professional certifications.

### **Jabil Circuit, St. Petersburg, FL**

*Linux Engineer III / Feb 2015 to Feb 2017*

- Served as Level 3 System Administrator for daily Linux environment operations.
- Focused on automation using Puppet, Ansible, and Salt for server building and configuration compliance.
- Managed and maintained open-source technologies like HAProxy and Spacewalk.
- Reviewed and documented daily procedures for Linux deployment and operations.
- Handled server hardware from HP, Dell, and other vendors, including firmware, setup, and monitoring.

### **Citi Group, Tampa, FL**

*Senior Unix Administrator / Nov 2014 to Feb 2015*

- Functioned as a Level 3 System Administrator, focusing on advanced troubleshooting and guiding Level 2 personnel through system maintenance.
- Developed and maintained scripts for task automation.

**Trinet/Gevity, Bradenton, FL**

*Sr. Unix Administrator / Nov 2004 to Nov 2014*

- Managed and administered HP and RedHat Linux servers, including DNS/BIND, NetBackup, VMWare ESX and ESXi, Apache/Tomcat, Subversion, and OpenView.
- Handled server hardware, firmware, and monitoring for HP and Dell platforms.
- Developed automation scripts for monitoring, snapshots, and interfacing with hardware API and SNMP.
- Served on Disaster Recovery Team, responsible for VMWare and Unix/Linux recovery.
- Managed storage technologies, including EVA, XP, and 3PAR storage, and SAN switch zoning with Brocade switches.
- Implemented private cloud using HP Matrix and Puppet for Linux virtual server deployment and maintenance.
- Maintained RedHat Satellite Server and built an on-site Git repository using Gitlab.

**Verizon Data Services, Temple Terrace, FL**

*Sr. Unix Administrator/Contractor / Jul 2004 to Nov 2004*

- Participated in verifying Tivoli Configuration Management installation for all Data Center Servers, including AIX, Solaris, HP-UX, and Redhat Linux.
- Automated and created scripts for repeated tasks using Perl, ksh, sed, and Awk.
- Identified root causes of failures, repaired, and documented issues.
- Troubleshot firewall access, logfile analysis, and software installation issues.