Marcus Holtz

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**Technical Support Engineer experienced with Linux, DevOps, programing, & customer service interested in** **joining a team to help with responsibilities and make accomplishments.**

# Technical Projects

## Homelab

* [My homelab](https://docs.google.com/spreadsheets/d/e/2PACX-1vSi5v2k_D79Qt8x_NAfr766UzHH1ddsXiPcn0Epben6a6TGPmGV-ywPLrpR4mmk575Pt3c4XSK-3EI2/pubhtml?gid=1093046237&single=true) features [VLAN network segregation](https://docs.google.com/spreadsheets/d/1wGjdCJFOPo7gF1jrSo6Y9S_uc8N1rTyLKcYWGcmCcBk/edit?usp=sharing), 6 VMs, ~100 containers, multi-tier snapshoting.

## Resume Info

This resume has been created in a [**dockerfile**](https://github.com/MarcusHoltz/resume-generator/blob/main/dockerfile) built by a [**makefile**](https://github.com/MarcusHoltz/resume-generator/blob/main/makefile) and deployed using [**Github Actions’ CI/CD**](https://github.com/MarcusHoltz/resume-generator/blob/main/.github/workflows/docker-image.yml). **The document is published everyday, with a timestamp at the last page denoting it’s publishing date.**

* + Download this document: <https://github.com/MarcusHoltz/resume-generator/>

# Skills

## DevOps and Infrastructure

**Virtualization** • System virtualization platforms: Docker, libvert’s QEMU/KVM, VMware’s vCenter and ESXi.  
System templates: CentOS, Ubuntu, FreeBSD, Debian, Windows in vmdk, vdi, vhdx, qcow2, & raw filetypes.

**Disaster Recovery** • Proxmox high availability ZFS solution featuring: Incremental 15min snapshotting for all VMs & persistent data using [PBS2, cv4pve and Sanoid](https://github.com/MarcusHoltz/proxmox-automatic-backups).

**Networking** • Virtualized edge routing: Linux, pfsense, OpenVSwitch, SPAN port for IDS, VLANs, DNS, BIND, VPN Installation of virtual network infrastructure: VMware ESXi, Proxmox, Hyper-V, Xen

**Containers** • LXC, containerd, docker compose, docker networking. Distributed storage technologies: NFS, Ceph, S3 as well as dynamic resource management: Kubernetes, Docker Swarm.

**Hybrid cloud administration** • Using tools such as SSH/tunneling, SSL, UDP hole punching, VPN, and single sign-on identity management.

**Edge deployment** • SSL certificate management with reverse proxy, using Traefik’s YAML config added Security Onion IDS within virtualized infrastructure with additional SPAN port to duplicate internal traffic.

**Cross-platform systems administration** • Experience architecting domains across a variety of systems: Debian, CentOS, Ubuntu, FreeBSD, Microsoft Windows.

**DevOps** • Knowledge of cloud infrastructure (AWS, Azure, GCP, Oracle) & orchestration (Chef, Puppet, Ansible, SaltStack, Terraform, Helm, OpenStack).

**Programing** • Programming language and database management skills (PHP, Javascript, Python, SQL). Shell scripting with Bash.

# Presentations

## Browser Privacy

* + \* **Understand what data is collected by the tools you use.** - [11/10/22](https://www.meetup.com/boulder-linux-users-group-blug/events/pqbkrqydcpbnb/) - [9/3/22](https://www.meetup.com/sofreeus/events/287663325/)
    - * [Link to Slides](https://nextcloud.sofree.us/index.php/s/L4cP2rzXZQgBisp) | [Link to Video](https://nextcloud.sofree.us/index.php/s/6ntcY6iyDSnyLBZ)

## Opensource Firmware on Routers

* + \* **What can opensource do for home consumer routers?** - [4/1/23](https://www.meetup.com/sofreeus/events/292349413/)
    - * [Link to Slides](https://www.holtzweb.com/openwrt-presentation.html) | [Link to Markdown](https://nextcloud.sofree.us/index.php/s/WWkasZJR8sT9RXj)

# Industry Experience

## Leadership Activies

**Software Freedom School, Littleton, CO** - **2022 - Present**

* • Software Freedom School board member since March 2023
* • Maintain open tickets for [SysOps board](https://gitlab.com/sofreeus/sfs-sysops/-/boards)
* • Presented at monthly community meetings
* • Team Member in weekly Linux study group

## IT and Web Consultation / Freelancing

**Holtzweb, Denver, CO** - **2019 - Present**

* • Established clients’ cloud based hosting environments, virtualization, and operations infrastructure.
* • Strategized SEO/SEM campaigns across web presence including blogs, email newsletters, ads & promotions resulting in a 40% increase in face to face traffic and web traffic.

## Web Development

**Highline Ideas, 1187, Mayer Networks, Carbondale, IL** - **2013 - 2017**

* • Created and designed custom website layout/user interfaces
* • Integrated data from various back-end services and databases
  + election data, employee database, interactive event map
* • Worked directly with clients to facilitate business and marking needs
* • Executed tests, analyzed data to identify trends and insights using analytics tools and 3rd party optimization tools
* • Ensured all site development follows web standards and ADA compliance for accessibility.
* • Executed SEO-based initiatives, including website analytics and optimization.
* • Fixed broken installs, hacked sites, busted databases, and never-been-updated themes/plugins.
* • Repaired, updated, and redesigned new & existing sites.
* • Designed custom website layout/user interfaces and custom backends to meet project deadline/requirements.

# Tools

## Software Tools Used

Linux, bash scripting, Python, HTML, CSS, JavaScript, MySQL, Apache, Nginx, HAProxy, Traefik, Samba, Windows Server, Active Directory, GIT, VMWare vSphere, ESXi, libvert, QEMU, KVM, Xen, Hyper-V, Nagios, Docker, Vagrant, Ansible, Jenkins, Puppet, Chef, SaltStack, Helm, Kubernetes, Terraform, AWS, GCP, Oracle Cloud, Microsoft Azure, Private Cloud Hosting, Red Hat Linux (RHEL), CentOS, Debian, Ubuntu, OpenSUSE, Android, Adobe Photoshop

# Education and Training

*BS in Finance* - **2011** Southern Illinois University

*Linux Foundation Certified System Administrator (LFCS): expected July 14th*

*AWS Certified Cloud Practitioner: expected May 15th*