

# 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

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### Homelab

My [homelab](#) features [VLAN network segregation](#), 6 VMs, ~100 containers, multi-tier snapshotting.

### Resume Info

This resume has been created in a [dockerfile](#) built by a [makefile](#) and deployed using [Github Actions' CI/CD](#). 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

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### DevOps and Infrastructure

**Virtualization** • System virtualization platforms: Docker, libvirt'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](#).

**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

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## Browser Privacy

\* Understand what data is collected by the tools you use. - [11/10/22](#) - [9/3/22](#)

· [Link to Slides](#) | [Link to Video](#)

## Opensource Firmware on Routers

\* What can opensource do for home consumer routers? - [4/1/23](#)

· [Link to Slides](#) | [Link to Markdown](#)

# Industry Experience

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## Leadership Activies

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

- Software Freedom School board member since March 2023
- Maintain open tickets for [SysOps board](#)
- 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 marketing 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

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## Software Tools Used

Linux, bash scripting, Python, HTML, CSS, JavaScript, MySQL, Apache, Nginx, HAProxy, Traefik, Samba, Windows Server, Active Directory, GIT, VMWare vSphere, ESXi, libvirt, 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

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*BS in Finance - 2011* Southern Illinois University

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

*AWS Certified Cloud Practitioner: expected May 15th*

Last Built on: Tuesday 16<sup>th</sup> May, 2023