Marcus Holtz

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**Administrator adept at performing installations and upgrades and providing education to novice users and technical support to resolve complex issues.**

# Resume Info

This resume has been created in a [dockerfile](https://github.com/MarcusHoltz/resume-generator/blob/main/dockerfile) by a [makefile](https://github.com/MarcusHoltz/resume-generator/blob/main/makefile) and deployed using Github’s [CI/CD pipeline](https://github.com/MarcusHoltz/resume-generator/blob/main/.github/workflows/docker-image.yml). The document is published every 72 hours, with a timestamp at the last page denoting it’s publishing date.

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

# Technical Experience & Projects

## Systems Administrator

**2018 - Present**

* • Detailed visual documentation of entire network infrastructure, system architecture, process, and policies.
* • Trained novice users in classes setting and private tutoring
* • Built, configured, tested, and deployed Proxmox high availability ZFS solution featuring incremental 15min snapshotting for disaster recovery using [cv4pve](https://github.com/Corsinvest/cv4pve-autosnap) and [sanoid](https://github.com/jimsalterjrs/sanoid).
* • System templates for cloning: CentOS, Ubuntu, FreeBSD, Debian using vmdk, vdi, vhdx, qcow2, & raw file types
* • Created workflows to log and monitor network bandwidth, memory usage, hard drive status, and application uptime using glances, netdata, netflow, & diskover

## Virtualization Administrator

**2019 - Present**

* • Researched cost and risk in leasing at long term off site datacenter.
* • Administered networking in virtualized environments, including virtualized edge routing with pfSense.
* • Designed, analyzed, optimized network infrastructure and troubleshooting networks and systems.
* • System virtualization platforms and tools: Docker, QEMU, KVM.
  + Docker was used with virt-io’s 9p filesystem to increase io speed
* • Deployment and management of headless, bare metal servers in off site datacenter using the model: Debian image > Proxmox baremetal > isolated containers > pfsense routing > haproxy > public internet
* • Configured and deployed SecurityOnion IDS within virtualized infrastructure with added SPAN port
* • Installation of virtual network infrastructure using: VMware ESXi, Proxmox, Hyper-V, and Xen.

## 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, 3 gateways, and multi-tier snapshoting.**

# Presentations

## Browser Privacy

* + \* BLUG (Boulder Linux Users Group) - [11/10/22](https://www.meetup.com/boulder-linux-users-group-blug/events/pqbkrqydcpbnb/)
  + \* SFS (Software Freedom School) - [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

* + \* SFS (Software Freedom School) - [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)

## Mastodon

* + \* SFS (Software Freedom School) - [12/3/22](https://www.meetup.com/sofreeus/events/289682203/)
    - * [Link to Slides](https://nextcloud.sofree.us/index.php/s/rzi7Jr6DmATHyoE) | [Link to Video](https://nextcloud.sofree.us/index.php/s/eEkBPKgTw4aQRDH)

# Leadership Activies

## Software Freedom School

* • 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

## Carbondale SIU

* • Built and managed Saluki Student Investment Firm website

# Industry Experience

## IT and Web Consultation / Freelancing

**Holtzweb, Denver, CO**

* • 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

**1187, Mayer Networks, Carbondale, IL**

* • Created and designed custom website layout/user interfaces
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* • 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.

# Education and Training

*BS in Finance* Southern Illinois University

*Linux Foundation Certified System Administrator (LFCS): expected June 24th*

## Soft Skills

Collaboration, Problem Solving, Communication, Critical Thinking, Creative Thinking, Active Learning, Adaptability, Leadership, Perceptiveness, Decision Making

## Technical Skills

Operating Systems, Build and Release, Networking Protocols, Deployment, Source Control, Containers, Configuration Management, Programming, Monitoring

## Tools

Unix/Linux, Jenkins, GIT, Salt/Ansible, Puppet/Chef, AWS/VMWare, Docker, Apache/Nginx, Python/Perl, Zabbix/Sensu

**Web Development Tools**

* • CMS: WordPress, Drupal, DNN, Joomla
* • SEO: Google Analytics, Piwik, MOZ, SEMRush, Megalytic
* • Design: Adobe Creative Cloud: After Effects, Illustrator, Photoshop
* • Webserver: Apache, Nginx
* • Database: MySQL,Postgres, MariaDB, Redis, MongoDB
* • CSS Boilerplate: Bootstrap, Foundation, Tailwind
* • Cloud: Azure, AWS, DigitalOcean, Cloudflare

# Hobbies

* + Making mixtapes, Coffee, Beer, My 2 Year Old
  + LoRA Radio, Network Security, Homelab

## References

References: Available upon request.