

# 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

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

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### 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](#) and [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** features **VLAN network segregation**, 6 VMs, ~100 containers, 3 gateways, and multi-tier snapshotting.

## **Presentations**

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### Browser Privacy

\* BLUG (Boulder Linux Users Group) - [11/10/22](#)

\* SFS (Software Freedom School) - [9/3/22](#)

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

### Opensource Firmware on Routers

\* SFS (Software Freedom School) - [4/1/23](#)

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

### Mastodon

\* SFS (Software Freedom School) - [12/3/22](#)

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

## **Leadership Activies**

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### Software Freedom School

- 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

### Carbondale SIU

- Built and managed Saluki Student Investment Firm website

## **Industry Experience**

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### 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 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.

## Education and Training

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*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

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Making mixtapes, Coffee, Beer, My 2 Year Old

LoRA Radio, Network Security, Homelab

## **References**

References: Available upon request.

Last Built on: Monday 17<sup>th</sup> April, 2023