# Marcus Holtz

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**Creative Technologist passionate about joining a firm that uses technology & service. Background in System Engineering, Automation, Web Development, Consulting, and Support.**

## Resume Info

This resume has been created in a dockerfile built by a makefile and deployed using Github's CI/CD pipeline. 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/

## Technical Experience & Projects

### Systems Administrator

**2018 - Present**

- Detailed visual documentation of network infrastructure, system architecture, process, and policies.

- Built, configured, tested, and deployed Proxmox high availability ZFS solution featuring:

   Incremental 15min snapshotting for disaster recovery using PBS2, cv4pve and Sanoid.

- Created system templates for cloning across multiple platforms and formats:

   CentOS, Ubuntu, FreeBSD, Debian in vmdk, vdi, vhdx, qcow2, & raw filetypes.

- Produced 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 snapshoting.**

# Presentations

### 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

### 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

### 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.

Last Built on: Thursday 20th April, 2023