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PROFESSIONAL SUMMARY:.

- Experience in:
    - Writing queries in SQL, XPath, and REST
    - Using text processors and DSLs like jq, yq, csv, tsv, xml, TeX
    - x509, ocsp/crl, fpki, and extended UIDs in general
    - Crypto hardware: HSMs, smartcards, pgpcard, FIDO, and HC Vault/KMS/secrets management systems
    - Splunk and Elastic+logstash+fluentbit/syslog
    - Chef, Ansible, AWS Cloudformation, and Terraform
- Deep knowledge of:
    - regex and globs
    - Bash, Perl, Ruby, Python
    - Linux (including some kernel level module/udev/bpf topics)
    - git (refer to my blog post on it – see link below)

ACTIVITIES:

I have been writing blog posts (and supporting code) about Linux firewall deployments, systemd, linux containers. I am studying for the professional Kubernetes certificates, learning rust, and extending the Grype database. I'm an Extra class Amateur Radio operator. I publish a blog on random technologies that interest me.

Blog: https://ioswitch.dev
Github: https://github.com/ag4ve
NF-Save: https://github.com/ag4ve/NF-Save
mon-hosts: https://github.com/ag4ve/misc-scripts/blob/master/mon-hosts-packed

bashpack: https://github.com/ag4ve/misc-scripts/blob/master/bashpack.pl
bash libs: https://github.com/ag4ve/bash-libs
nft policy: https://github.com/ag4ve/nft-policy

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer, Jotform – San Francisco, CA   Nov 2022 – Oct 2023
- Maintained servers and infrastructure on Google Cloud platform
- Created new Terraform modules and Ansible roles
- Wrote a Bash script to look at each cert running on a server and report on how many days until it expired

Junior Vulnerability Management Engineer, Jacobs – Herndon, VA   Jan 2021 – Aug 2021
- Analyzed remediation and false positive submissions for accuracy
- Built a powershell script to flag false positives

Senior Systems Admin, Innotac (contract to USCIS) – Falls Church, VA   Feb 2016 – July 2020
- Worked with 3 AWS accounts containing multiple VPCs to their own Cisco CSR/DirectConnect and multiple deployments/environments
- Designed and implemented a deployment strategy for RHEL/CentOS systems in AWS (created shell scripts, cloudformation templates, updated packer scripts, chef cookbooks)
- Managed two coworkers to upgrade a large Chef environment (version 11 to 14), repo cleanup, and supermarket deployment
- Implemented Hashicorp Vault (including OIDC sign in and AWS instance authentication for host secrets)
- Created a chef resource (LWRP) to create iptables rules from protocol/application rule definitions and created a Splunk dashboard to show iptables log data across all servers
- Investigated and explained or remediated security audit findings
- Made sure that deployments only used internal resources
- Created Groovy libraries and workflows to allow push button deployments and environment updates in Jenkins
- Created/maintained Chef and Jenkins integrations with each other and AWS (boto3), packer, vault, Chef Minimart, etc.

Systems Admin, KoreLogic Security – Deale, MD   Dec 2012 – Dec 2015
- Maintained Gentoo and Ubuntu Linux systems at three different geographic locations
- Maintained password cracking hardware, Raritan KVMs, and other hardware
- Wrote a Perl script that analyzes and efficiently presents data from iptables log lines
- Wrote a Perl module that generates iptables rules from a Perl data structure (NF-Save)
- Wrote a Bash script that starts tmux sessions and runs predefined commands
- Wrote a Perl script that packs sourced bash 'modules' sourced from a script
- Wrote a bash script to monitor hosts (mon-hosts)