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Remote preferred; hybrid acceptable within 30 miles of Austin, TX; unlimited travel acceptable if financed

Lifelong science and technology professional with extensive experience across the entire I.T. landscape in networking, systems administration, DevOps and InfoSec. Recently published, is motivated to getting cloud-native as possible, with self-healing infrastructure deployment leveraging Kubernetes; IaC solutions like Ansible, Terraform, and CloudWatch wherever feasible.

----- Certifications and Technical Areas

Cisco CCNA Route/ Switch and CCNA CyberOps/ InfoSec; AWS Solutions Architect Associate, MEF SDN/NFV Professional EC-Council Certified Ethical Hacker (CEH), and Forensics Investigator (CHFI); CompTIA Sec+, Net+, and CASP

- **Networking:** Firewalls (Cisco ASA; Fortigate; pfSense, IPTables); TCP/IP, Routing (RIP, OSPF, EIGRP, BGP), VPN (IPsec and SSL, EVPN), ELAN (L2TPv3/MPLS); Vendors: Cisco, Meraki, Juniper, Dell, HP, Aruba, Brocade, Ruckus, ADVA
- **Infosec & Monitoring:** Packet capture, inspection/ analysis with Wireshark; testing with nmap, hping; SIEM (Splunk, ELK stack), Vulnerability assessment (Qualys, Nessus, etc.); Security Onion, SolarWinds, Nagios, Prometheus
- **Infrastructure:** Virtualization & Cloud (AWS, GCP, VMware ESXi/NSX, OpenStack); Cloud Native (Kubernetes, OpenShift, Istio, Helm; Weave Flux, GitOps); CI/CD & IaC (Ansible, Terraform, CloudFormation, Puppet, Chef, Jenkins)
- **Operating Systems:** Linux (since 1999), Windows Server (since NT 1995; Active Directory, Group Policy), BSD, MacOS
- **Programming:** Python, Bash, PowerShell (currently); C/C++, Java, Perl (previously)

----- Employment History

Network/SysAdmin/DevOps Engineer

Mar 2019 to present - Consultant; Partnered with contracting/staffing firms

- Configured and maintained data center network and storage infrastructure (including standards like HPE, Dell, NetApp, Cisco)
- Collaborated with several firms to support clientele such as: ProLogic ITS, Premier Technology Solutions, and ARM.
- Obtained AWS Solutions Architect Associate certification and updated skills in Active Directory and EVPN-VXLAN over BGP.
- Successfully installed VMware ESXi on unsupported hardware at home, enabling virtualization of enterprise appliances
- Published *Linux and Network SysAdmin Companion Reference*, aimed at providing concise info on CCNP, RHCE, security, and DevOps topics. Huge 250+ pgs, 8.5x11 inch pages, small font and few graphics to make more comprehensive.
- *Below, WeaveWorks and GXC are brief examples of more interesting projects relating more to cloud native and DevOps.*

ML/Neural Nets Development Associate

Jun 2020 to Aug 2020 - GXC

- Implemented machine learning and neural network components within a summer post-graduate internship cohort
- Leveraged Python, TensorFlow, Keras, NumPy, and Pandas; Git for version control
- Operated within ML pipeline (data-preprocessing, model training, evaluation, testing, debugging, and optimization).
- Was invited to participate personally by the previous CEO

Cloud-native Kubernetes Infrastructure Associate

May 2019 to Oct 2019 - WeaveWorks

- Gained insight into managing multi-cloud Kubernetes by leveraging GitOps and CNI solutions designed for that workload.
- Deep dive into Weave Flux (GitOps) and Weave Net (CNI) - both designed specifically to enable multi cloud K8s
- Was inspired by the GitOps concept (quick rollback and rapid recovery of IaC 'source of truth' files) and the possibility of applying it to non-K8s environments (Ansible, CloudFormation, Terraform, etc)
- Was invited to participate personally by the CEO. Company now defunct, and Flux now remains as a project of the CNCF

Network Engineer II, Enterprise Managed Services Ops, Event/ Incident/ Problem Mgmt team

Jul 2018 to Feb 2019 - Charter Communications; Spectrum Enterprise

- Part of a specialized team of 10-12 engineers responsible for critical 24/7 on-call rotations ensuring continuous network operations in line with Spectrum Enterprise's 99.999% uptime SLA for corporate LAN and VPN connectivity.
- Delivered advanced support, repair, configuration and design adjustments for enterprise ELAN tunnels, L2TPv3 circuits and ensuring reliable connectivity between geographically dispersed customer offices via a Juniper-based MPLS core.
- Diagnosed and corrected misconfigurations in firewall filters, access control lists (ACLs), and Quality of Service (QoS) settings that could cause network outages, performance degradation, or bandwidth issues.
- Other supported products: DIA (direct internet access), Ethernet over DOCSIS (EoD), Carrier EoD (e.g., for a small town ISPs).
- Primary equipment included Cisco, Juniper routers, WLAN controllers for large facilities.

Network/SysAdmin/DevOps Engineer

Jan 2015 to Jun 2018 - Consultant; Partnered with contracting/staffing firms

- Racked, stacked, and wired data center equipment
- Upgraded and re-provisioned workstations in hospitals for offices and critical patient care areas, ensuring minimal disruption.
- Configured and deployed LANs, workstations in K-12 schools and sensitive government agencies
- Performed security assessments; penetration tests, and vulnerability analysis of SMBs.
- Provided consultation on WiFi provisioning for a conference with 6,000+ attendees.
- In 2016, began exploring Docker, Kubernetes, and OpenShift for containerization, IaC solutions like Ansible
- *Below, Experian Health and Compucom are brief examples of these contracts*

Network Security Engineer: Systems Operations, Vulnerability Management

Sep 2017 to Feb 2018 - Experian Health

- Reported to the VP of IT Ops; collaborating with production control, change management, and DevOps teams.
- Resolved vulnerabilities identified by tools such as Qualys, Tanium; utilized Jira, Helix ALM for ticket management.
- Patched, scripted, and upgraded physical and virtual systems across multiple data centers to mitigate risks.
- Remediated Cisco, Dell, F5, Linux servers (Ubuntu/Red Hat), Windows Server, and Windows VDI images.

Network Consultant

Jun 2017 to Sep 2017 - CompuCom

- Analyzed and resolved network outages from the customer premise border to internal endpoints.
- Assessed and remediated issues with equipment in the Premise Distribution Closet - fiber to Cat6 converters, ODUs; PDU, routers, switches, firewalls, onsite NAS, telephony gateway, etc)
- Evaluated all site workstations for operational status, remediated if needed.
- Provided clear, non-technical overview to the site manager regarding status, scheduled upgrades/ replacements expected by next premise inspection. Advised on other equipment replacements traditionally procured via their corporate office

Departmental Executive Assistant

Aug 2006 to Oct 2014 - Austin Community College - Psychology, Sociology

- Consulting for Department Chair; provided faculty and staff support; a non-tech position during tech market downtime.
- Leveraged downtime into professional development in systems, networking, and security, ensuring tech skills remained current.
- Applied RHCSA/RHCE principles to define strategies for Debian-based Linux and BSD Unix systems.
- Refined network engineering knowledge, focusing on Cisco technologies and subnetting
- Followed the development of BackTrack Linux through its evolution into Kali Linux

Systems Administrator

Feb 1999 to May 2006 - Texas Radiation

- Evaluated multiple Linux versions for stability and performance.
- Implemented Bash, PERL, and Python scripts for automation and management
- Kept up-to-date on Windows Server and Active Directory developments

Programmer/ Software Developer

May 1999 to Feb 2001 - HumanCode (acquired by Sapient)

- Developed object-oriented programs in Actionscript, PHP/MySQL, Java and C++
- Upgraded projects written in Authorware and Director Lingo code. Advised on company-wide IT support issue resolution.

Computer Programmer/ Network Services

Jun 1994 to May 1999 - University of Texas at Austin

- Co-managed all labs provided by College of Education; supervision and training to all lab staff.
- Provided faculty, staff and students IT support throughout the College of Education and Kinesiology departments.
- Managed configuring automated software deployment to 250-300 workstations in 7 labs, each serving distinct curriculum needs
- Facilitated network infrastructure and planning, assisting senior network planners for the College.
- Administered group policies and user/group memberships on Windows Servers.

----- Education

May 1996 to May 2000 - University of Texas at Austin

Information Systems and Computer Science coursework (non-degree plan)

- Internship: lab management, Windows Server, jr network administration, IaC of 300-500 workstations, OOP programming
- Groups: Austin Linux User Group