

Heath Seals

ABOUT

Cloud and Virtualization Enthusiast. Self-driven information technologist who is always learning. 20+ years of experience across a wide array of disciplines.

WORK EXPERIENCE

Puppet https://www.puppet.com December 2013 – August 2022	Remote
Principal Engineer Multiple roles within Puppet during my tenure, most focused on improving the reliability and experience of systems our developers rely on for building and shipping software.	
Highlights	
Worked within a team responsible for building an internal platform for developing and delivering SaaS-based offerings. The platform was developer-focused and provided opinionated GitOps patterns to allow for quick iteration on product development. The platform was built on GCP utilizing Terraform, GKE, CloudRun, ArgoCD, and kustomize/Helm. Other components utilized included Crossplane, Config Connector, Kyverno, ExternalDNS, cert-manager, External Secrets, Prometheus, and Grafana.	
Contributed to a team tasked with overhauling CI systems due to persistent capacity issues. Planned and implemented the infrastructure bits of moving scheduling of CI jobs to Mesos and eventually Kubernetes.	
Developed patterns for migrating applications in a variety of languages from VMs (VMware and EC2) to containerized workloads running on GKE and CloudRun.	
Provided operational support and technical guidance for a number of product teams, including the Puppet Forge.	
Developed build pipelines and implemented the necessary infrastructure to create automated machine images for use in CI jobs. The pipelines supported a large number of OS' and architectures (90+) and various image types (VMware, AMLs, Vagrant Boxes). Extended this process to generate appliance artifacts for some Puppet products.	
Supported tooling, infrastructure, and automation required to build and ship Puppet open source projects and Puppet Enterprise.	
Served on the Developer Services Steering Committee where we worked to prioritize the backlog across multiple teams.	

EFT Source https://www.eftsource.com August 2010 – December 2013	Nashville, Tennessee, United States
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Infrastructure Engineer Responsible for all aspects of systems infrastructure in three data centers; including compute resources (Dell and VMware vSphere), network (Cisco), and storage (EMC and Openfiler) infrastructure, as well as security (Cisco and pfSense).
Highlights
Focused on system automation, monitoring/observability, security, and improving system reliability.
Maintained environments that met PCI-DSS, Visa, and MasterCard requirements.
Responsible for infrastructure supporting a PCI-DSS compliant instant issue product with hundreds of remote endpoints. Utilized an embedded linux device connected to our data centers via dynamic IPsec tunnels.
Provided tier three support for operations teams.

New Age Technologies https://www.newat.com March 2006 – August 2010	Nashville, Tennessee, United States
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Senior Consulting Engineer - Virtualization Technical Lead on numerous VMware Virtual Infrastructure (enterprise virtualization platform), Lab Manager (lab automation), View (virtual desktop deployments) and SRM (disaster recovery) projects.
Highlights
Managed all aspects of projects including initial planning sessions, infrastructure design (server hardware, network, and storage), installation/configuration, operational readiness, and documentation/knowledge transfer.
Project sizes ranged from single digit hosts with a small number of virtual machines to hundreds of hosts supporting thousands of virtual machines. Wide range of industry exposure including healthcare, automotive, computer services, and telecommunications.
VMware Authorized Consultant accredited to deliver VMware Virtual Infrastructure, P2V, Lab Manager, View, and SRM Jumpstarts, as well as virtualization assessments, consulting engagements and residencies.
Served on a Technical Steering Committee where we provided support and guidance to other consultants.

Caterpillar Financial Services Corporation https://www.caterpillar.com/en/brands/caterpillar/financial.html March 2003 – March 2006	Nashville, Tennessee, United States
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Unix System Administrator System administrator responsible for implementation and support of Unix, Linux, and VMware environments.
Highlights
Introduced VMware ESX and VirtualCenter into the data center to consolidate servers, simplify management burdens, and reduce lead time for resource requests.
Configuration management using cfengine and isconf
Implementation of Oracle 9i and 10g RAC on Linux in support of CatUsed.com
Support of HP-UX, Solaris, and Linux operating systems
Provided tier three support for operations teams.








SCB Computer Technology, Inc. July 2001 – March 2003	Nashville, Tennessee, United States
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System Security Engineer Contractor for the State of Tennessee. Responsible for supporting statewide network management systems, network security architecture for state agencies, and tooling to simplify and automate tasks.
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BlueStar Communications, Inc. March 2000 – July 2001	Nashville, Tennessee, United States
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Unix System Administrator / Firewall Team Lead System administrator responsible for services such as DNS, web hosting, and e-mail. Served as firewall team lead for our colocation facilities and managed customer devices.

CONTACT

	San Diego, California US
	615.335.2032
	heath@nodata.org
	https://heath.nodata.org/resume
	LinkedIn heathseals
	Twitter heathseals
	GitHub heathseals

SKILLS

Infrastructure
GCP AWS Kubernetes Docker VMware
DevOps
Terraform Vagrant Packer ArgoCD GitHub Actions Jenkins Puppet
Programming / Scripting
bash Python Ruby
Operating Systems
macOS Linux Unix

INTERESTS

Hobbies
Running Cycling SUP Hiking Travel