JEFF DAVIS

This Resume is maintained using my Resume Operator powered by K8s

Check it out at: https://github.com/JefeDavis/Resume-Operator

OVERVIEW

Passionate Kubernetes Engineer with automation, design, and architecture experience along with strong programming and troubleshooting skills in enterprise environments. Self-motivated with not only a desire to learn, but to lead and teach others as well. Seeking a professionally challenging environment to engage technical and automation skills.

EXPERIENCE

Second Front Systems
Remote

SENIOR STAFF PLATFORM ENGINEER   *November 2023 - Present*

VMware Tanzu Labs
Remote

SENIOR STAFF SOLUTIONS ARCHITECT   *August 2023 - October 2023*

- Led initiatives to enable customers in bootstrapping and accelerating their DevOps journeys using Tanzu and cloud-native technologies.
- Mentored and developed technical skills for fellow architects in Kubernetes, container orchestration, and cloud-native ecosystems.
- Acted as a strategic "fixer" for high-profile, complex customer engagements, resolving technical challenges and improving customer satisfaction.
- Expanded role beyond Kubernetes deployments to architect comprehensive datacenter environments, including compute systems, storage infrastructure, storage networking, and datacenter networking, ensuring robust and scalable solutions for customers.

STAFF FIELD ENGINEER   *March 2021 - July 2023*

- Developed open-source tool to convert Kubernetes manifests into fully functional Kubernetes Operators to perform create, update, and delete lifecycles of an application
- Created Golang library to convert Kubernetes Yaml manifests into Golang structs
- Engineered open-source tool to allow overlaying Yaml manifests via Json Path specification
- Designed Golang "marker" lexer using state machine concepts to understand marker comments in Yaml manifests and Golang source code
- Consulted on reference architecture for Tanzu Kubernetes on vSphere

Contact

- +1-605-269-8437
- mr.JefeDavis@gmail.com
- https://linkedin.com/in/JefeDavis
- https://github.com/JefeDavis
- South Carolina

CORE COMPETENCIES

- Virtual and Container technology design, implementation, and troubleshooting
- Deep understanding of underlying data center concepts and theories
- Expert on Automating problems to remove roadblocks and ease operational overhead
- Productivity in high pressure situations
- Analytical thinking
- Written and oral communication
- Confidence briefing executive staff
- Datacenter design & architecture
- Experienced traveler

SKILLS

Programming: Golang, PowerShell, Python, Docker, Helm, GraphQL, Yaml, Bash, HTML (including Jinja), Javascript, CSS, SCSS

Developer Tools: Git, Gitlab, Github, Gitlab CI, Github Actions

Infrastructure-as-Code: Terraform, Puppet, Ansible

Container Orchestration: Kubernetes, Docker Swarm, OpenShift

Serverless: Knative, OpenFaas

Monitoring: Prometheus, Grafana, Splunk

Epic Systems
📍 Madison, Wisconsin

DEVELOPMENT PLATFORM LEAD   *June 2020 - February 2021*

- Led 4 person Site Reliability Engineer team to maintain Development platform consisting of GitLab SCM, Artifactory artifact management software, Security Controls, and Kubernetes Platform
- Lead Architect for Infrastructure as Code technologies and auto enforcement strategies for Epic Hosted platform
- Advisor for Container Strategies across Epic systems Portfolio
- Engineered CI/CD pipeline for 12 languages; allowed automated testing, documentation, building, packaging, and deployment for 200+ developers
- Designed and taught introduction to development courses for new staff; provided common terminology and framework for getting started with git and on-ramp for new developers.
- Blueprinted centralized GraphQL service to combine disparate data into single endpoint; delivered single source of truth to integrate customer, provisioning, and environment information into automation.

VIRTUALIZATION DEVOPS ENGINEER   *July 2018 - June 2020*

- Developed containerized risk-aware desired state configuration application suite to configure virtual infrastructure; delivered automated consistency and standardization of 60+ vCenters, 38K+ VMs, 3.4K hosts
- Champion for automating processes throughout organization; lead automation developer, SME for PowerShell, Golang, and Container design discussions.
- Lead Team Code Reviewer, analyzed code from 6+ different languages to provide feedback, test for bugs, and mentor on how to create scalable, optimized, and readable code
- Developed automated end-to-end VM provisioning process; reduced deployment time by 80%
- Instituted standardized Module and API Server Frameworks allowing for standard, consistent and faster startup time for new developers.

691st Cyber Operatations Squadron, USAF   📍 Ramstein AB, Germany

SENIOR STORAGE AND VIRTUALIZATION ENGINEER   *June 2014 - June 2018*

- Designed and Deployed vSphere 6.5 architecture at 6 data centers and 22 branch offices across 10 countries
- Acted as chief technical advisor in support of data center deployments, upgrades and optimizations.
- Engineered/automated $89M standardized enterprise virtual infrastructure platform sustaining 133 virtual suites
- Coordinated Air Force Life Cycle Management Center/industry support; Developed best practices for both classified and unclassified networks, standards, and configurations for enterprise employment
- Administered 1300+ virtual/backup servers on $10B enterprise network supporting 46K users at 7 data centers/114 branch offices
- Designed content replication architecture to provide standardized VM deployment capabilities across 29 sites decreasing deployment time 90%
- Developed automated means of network deployment ensuring standardized and rapid deployment of new data centers
- Collaborated with VMware, Dell, and Microsoft Personnel to develop turn-key enterprise solutions for deployment on the Air Force Network

CERTIFICATIONS

- VMware Certified Professional - Data Center Virtualization 2020(VCP-DCV) *(December 2020)*
- VMware Certified Advanced Professional 6 – Data Center Virtualization Design(VCAP-DCV-Design) *(December 2016)*
- VMware Certified Advanced Professional 5 - Data Center Virtualization Deploy(VCAP5-DCV-Deploy) *(July 2015)*
- Certified Kubernetes Security Specialist(CKS) *(August 2024)*
- Kubernetes and Cloud Native Security Associate(KCSA) *(August 2024)*
- Certified Kubernetes Application Developer(CKAD) *(August 2024)*
- Certified Kubernetes Administrator(CKA) *(August 2024)*
- Kubernetes and Cloud Native Associate(KCNA) *(August 2024)*
- VMware Certified Implementation Expert 6 – Data Center Virtualization(VCIX6-DCV) *(December 2016)*