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   *April 2024 - Present*

- Architected and delivered an edge compute platform deployment framework, enabling secure, repeatable deployments across air-gapped, edge, and multi-cloud environments, significantly expanding portability and mission readiness.
- Designed a centralized platform distribution model, establishing OCI-based packaging, versioning, and GitOps delivery patterns that reduced configuration drift and standardized operations across environments.
- Led the organization-wide adoption of Crossplane, defining schemas, compositions, and standards that enabled cloud services to be provisioned directly from application configuration, eliminating separate infrastructure stacks and reducing operational overhead.
- Drove a strategic partnership with Chainguard, influencing upstream publishing changes that significantly improved image consumption, security, and operational usability.
- Authored comprehensive platform documentation and delivered training across engineering and customer-facing teams, covering platform architecture, application authoring standards, rollout and upgrade strategies, Kubernetes, GitOps, and cloud provisioning, while mentoring engineers in modern platform practices—scaling organizational knowledge, improving onboarding, and reducing reliance on single-point expertise.
- Led mission-critical platform and application deployments for government, defense, and regulated-industry customers under timelines ranging from weeks to days, consistently delivering under extreme operational pressure.
- Developed new Infrastructure-as-Code patterns, standardizing/modernizing how platform infrastructure is authored, reviewed, and maintained across cloud environments.

FEDERAL SOLUTIONS ARCHITECT   *November 2023 - April 2024*

+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

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

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.

CERTIFICATIONS

- 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 Professional - Data Center Virtualization 2020(VCP-DCV) *(December 2020)*
- VMware Certified Implementation Expert 6 – Data Center Virtualization(VCIX6-DCV) *(December 2016)*
- 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)*