

DAN SHEPARD

Senior Platform Engineer · DevOps · Site Reliability Engineering

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PROFESSIONAL SUMMARY

Senior platform engineer with 7+ years building and operating GitOps-driven infrastructure on AWS and Kubernetes. I turn manual, push-based ops into self-service platforms — Terraform/Crossplane IaC, ArgoCD/FluxCD delivery, and ephemeral preview environments — while cutting cloud spend (30% EKS savings) and shipping compliance-ready systems (CMMC / FedRAMP on AWS GovCloud). AWS Solutions Architect Associate certified.

CORE TECHNICAL SKILLS

Kubernetes & Orchestration: Amazon EKS, Helm, Karpenter, Cilium / Gateway API, Argo Rollouts (canary & blue/green), Argo Image Updater

GitOps & Continuous Delivery: ArgoCD (app-of-apps), FluxCD, Burrito, Argo Rollouts, automated preview/ephemeral environments

Infrastructure as Code: Terraform, Terragrunt, Crossplane (function-pythonic compositions, Upjet), Ansible, Packer

Cloud (AWS): Multi-account & GovCloud, EKS, Aurora PostgreSQL, ElastiCache/Redis, S3, Route 53, ACM Private CA, NLB, IAM / Pod Identity, ESO

CI/CD: GitHub Actions, GitLab CI, Jenkins, CircleCI

Security & Compliance: CMMC L1/L2, NIST SP 800-171, FedRAMP, HashiCorp Vault, SOPS, envelope encryption, OKTA SSO, Wiz

Observability: Datadog, Grafana, Splunk, New Relic, Nagios

Languages & Scripting: Python, Bash, PowerShell

PROFESSIONAL EXPERIENCE

Sr. DevSecOps Consultant | Trility Consulting

Apr 2026 – Present

- Built and shipped a CMMC-compliant, self-managed GitLab platform on AWS GovCloud from scratch — EKS, Aurora PostgreSQL, ElastiCache Redis, S3, Pod Identity, Cilium Gateway API, cross-account ACM Private CA, and Route 53 — integrated into the corporate network via an OKTA-backed NLB bridge to a working browser login.
- Designed a multi-account Crossplane control-plane architecture (management, shared-services, sandbox) with cross-account AWS ProviderConfigs, cross-account PCA issuance, and a Kubernetes ProviderConfig for deploying native resources from the management plane into target clusters.
- Authored nine function-pythonic Crossplane composition steps spanning the full GitLab dependency chain (context → ESO → RDS → Redis → storage → Pod Identity → Helm → Cilium ingress → Route 53); diagnosed deep provider bugs (protobuf Value coercion, observed-state sentinel failures, PodIdentityAssociation external-name drift in provider-aws-eks v2.1.1).
- Migrated a Wiz FedRAMP tenant deployment from Terraform to pure Crossplane using Upjet — 12 resource types across connector, governance, SSO, and policy groups, including a provider-wiz config seed and a GraphQL-resolver composition step.
- Delivered a CMMC L1/L2 gap analysis against all 14 NIST SP 800-171 Rev. 2 control families with full AWS architecture diagrams and remediation guidance.

Senior Platform Engineer | Red Oak Technologies

Sep 2025 – Mar 2026

- Implemented GitOps for Terraform & Terragrunt via the Burrito platform, moving deployments off developer workstations into a single controlled location.
- Stood up automated Terraform drift detection to keep infrastructure state continuously reconciled.

Senior Platform Engineer | Deloitte

May 2024 – Jul 2025

- Replaced Terraform-automated infrastructure with Crossplane modules for a Kubernetes-native control plane.
- Migrated push-based deployments to a GitOps pull-based model using ArgoCD and Helm.
- Moved secrets management from AWS Secrets Manager to HashiCorp Vault and wired Vault into CircleCI pipelines.
- Led implementation of ephemeral environments, measurably improving developer productivity and iteration speed.

- Built and maintained Datadog dashboards and alerting for a corporate Jira platform, giving engineering teams real-time visibility into availability, performance, and incidents.
- Operated GitLab and Amazon EKS workloads and resolved production issues spanning SMTP mail delivery, CI/CD pipelines, and cluster networking.

Senior DevOps Engineer | Glorify

Feb 2023 – Feb 2024

- Built the company's entire platform infrastructure on Amazon EKS, with modular, reusable Terraform kept DRY via Terragrunt.
- Delivered GitOps workflows with FluxCD and ArgoCD (app-of-apps) and wrote extensive Helm charts powering automated, isolated preview environments that increased developer velocity and gave QA full test environments.
- Implemented automated canary and blue/green deployments with Argo Rollouts and Image Updater.
- Managed Sailthru / Marigold marketing-platform infrastructure with Terraform and built Grafana dashboards for deliverability and performance monitoring.
- Drove cost-saving initiatives that cut EKS spend by 30%; authored GitHub Actions CI/CD pipelines and troubleshoot Node.js middleware. (Role ended in a company-wide layoff.)

Site Reliability Engineer | Omaze

Nov 2021 – Feb 2023

- Operated EKS applications and infrastructure with FluxCD, ArgoCD, and Helm in a high-volume environment; managed Terraform/Terragrunt modules across services.
- Designed and adopted Karpenter for node autoscaling and led IaC renovations that reduced Kubernetes infrastructure spend.
- Strengthened security with SOPS in the release cycle and envelope encryption of the EKS environment; built and iterated GitHub Actions for Dockerized microservices.
- Created a cross-functional incident-response system spanning engineering, product, and legal teams; mentored junior engineers. (Role ended in a company-wide layoff.)

DevOps Engineer | Audacy, Inc.

Jan 2020 – Oct 2021

- Built and managed entire AWS environments with modular Terragrunt-style Terraform; created and managed Kubernetes clusters and GitOps-based CI/CD within them.
- Authored Jenkins and GitLab pipelines and partnered with developers to deploy applications to Kubernetes; automated operational tasks in Bash and Python.

Earlier Experience

- DevOps Engineer, MiTek Industries (2019–2020) — containerized applications with Docker, built on-demand dev environments and pipelines, Terraform IaC, Ansible for legacy infra.
- Systems & DevOps Administrator, Blue Spruce Capital (2018–2019) — Python/Flask REST APIs on AWS, API automation (Workspace ONE, FreshService, Box), CIS/NIST-hardened workstation builds, SAML SSO.
- Systems Engineer, Integritechs (2017–2018) — AWS migrations and architecture (Packer, Vagrant), AWS Partner initiative, supported 400+ users.
- Progressive IT / systems roles across Travelopia, California Resources Corp., Gold's Gym, and others (2013–2017) — Active Directory, virtualization (ESXi), networking, and end-user support at scale.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate · CompTIA A+ · CompTIA Network+

EDUCATION

- M.S., Information Technology — Southern New Hampshire University (2017–2019)
- B.S., Criminal Justice / Law Enforcement Administration — ITT Technical Institute (2009–2011)
- A.A., Music — Ventura College (2000–2005)