

JOSEPH DIPERI

Agentic Infrastructure & DevOps Optimization Specialist

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PROFESSIONAL SUMMARY

Infrastructure Engineering Leader with 8+ years of experience architecting autonomous, self-optimizing cloud systems and leading DevOps/SRE teams. Source-backed Cayuse record includes 17 OKR initiatives, 96 epics led, 286 resolved assigned Jira items, 500+ delegated team tickets, 226 authored Confluence pages, and 103 High/Urgent items across platform modernization, observability, CI/CD, security, and incident-response workstreams. Builds practical agentic operations systems spanning compiled knowledge wikis, OpenClaw/QMD memory indexing, local LLM orchestration, GitLab/K3s automation, and observable homelab services. Deep expertise in AWS, Terraform, Kubernetes, Helm, OpenTelemetry, Grafana, Prometheus, and compliance automation (SOC 2, FedRAMP, HIPAA, HITRUST).

TECHNICAL SKILLS

Agentic AI/Ops:	Agentic Infrastructure, Autonomous Observability, Self-Healing Systems, Specification-Driven Development, AI-Augmented Operations, Intelligent Automation, AIOps
Cloud & IaC:	AWS (EC2, ECS, EKS, Lambda, S3, IAM, Route 53, CloudWatch, EMR), Terraform, Infrastructure as Code, Multi-Cloud Architecture
Containers:	Kubernetes, Docker, Container Orchestration, Helm, Multi-Tenant K8s, K8s Operators, EKS, ECS, KIND
Observability:	OpenTelemetry, Grafana, Prometheus, Loki, Grafana Alloy, Datadog, New Relic, Distributed Tracing, Synthetic Monitoring, Observability-as-Code, SLOs/SLIs, k6
CI/CD:	Bitbucket Pipelines, Jenkins, Buildkite, GitHub Actions, GitOps, Nginx, Self-Service Deployment, Internal Developer Platform (IDP)
DevSecOps:	SOC 2 Type 1/2, ISO 27001, HIPAA, HITRUST, FedRAMP, GDPR/CCPA, Snyk, SBOM, Sonar Cloud, Vulnerability Management
Languages:	Python, Bash, Go, JavaScript, SQL, HCL
Data:	PostgreSQL, MySQL, Apache Airflow, Apache Hadoop, SQLAlchemy, Redis
Management:	JIRA, Confluence, OKRs, Agile/Scrum, SDLC, Release Management, Change Management (CAB), Workfront

INDEPENDENT AGENTIC INFRASTRUCTURE LAB

- Built and operate a homelab platform with self-hosted GitLab, K3s, nginx/Tailscale routing, CouchDB, MinIO, Prometheus, Grafana, Loki, Alloy, Mac Mini/Studio services, and local LM Studio model routing
- Designed compile-first Obsidian knowledge vaults with source ledgers, validation scripts, QMD/OpenClaw memory indexing, and retrieval smoke tests across eight domain wikis

PROFESSIONAL EXPERIENCE

DevSecOps Engineering Manager

November 2023 – Present

Cayuse • Remote

- Led DevSecOps/SRE team execution across 17 OKR initiatives and 96 epics, translating platform strategy into Jira-driven execution across DevSecOps, DSO, and DEVO workstreams
- Resolved 286 of 315 assigned Jira items while creating and delegating 500+ team tickets, combining hands-on infrastructure delivery with management leverage
- Led multi-product DuploCloud/Kubernetes migration tracks, coordinating prerequisites, runbooks, timelines, risk handling, and day-of process across product stakeholders
- Drove observability modernization across OpenTelemetry, Grafana synthetic monitoring, service dashboards, SLO dashboards, Java agent upgrades, and pipeline reliability OKRs
- Built self-service reliability tooling including k6 performance validation through Bitbucket Pipelines and Kubernetes operator workflows
- Advanced security and compliance automation across SBOM/Snyk pipeline rollout, vulnerability remediation, certificate automation, branch protection, shared Terraform, and Bitbucket pipeline standards
- Owned high-severity operational work, handling 103 High/Urgent items including production incidents, Problem records, RCA follow-ups, and structural prevention epics
- Authored 226 Confluence pages across runbooks, migration playbooks, architecture, RCAs, process standards, AI workflows, and observability guides

Senior DevOps Engineer

February 2022 – July 2023

NextRoll • Remote

- Maintained 99.9% uptime SLA for AWS cloud infrastructure serving AdTech platform, implementing Datadog APM with intelligent dashboards and automated anomaly alerting across 20+ microservices
- Integrated automated code quality gates (linting, SAST, unit tests) into CI pipelines for Nginx and Flask repositories, reducing production bug rate by 30%

- Spearheaded automation of labor-intensive monthly operational processes through Buildkite CI pipeline orchestration, eliminating 15+ hours/month of manual toil
- Optimized PostgreSQL/SQLAlchemy query performance, achieving 40% responsiveness boost and 90% latency reduction on critical data paths
- Participated in on-call rotation for production infrastructure, triaging and resolving P1/P2 incidents across distributed microservices with documented root cause analysis

Technical Lead / Engineering Manager

July 2020 – January 2022

Proclivity Systems • New York, NY

- Guided a team of 11 engineers to 30% sprint velocity increase through Agile process optimization, release cadence improvements, and cross-functional alignment with product stakeholders
- Established engineering SDLC standards including technical design reviews, architecture decision records (ADRs), and automated peer review workflows, reducing rework by 25%
- Defined deployment strategy and release management processes, enabling bi-weekly production releases with 98% deployment success rate
- Hired, onboarded, and mentored 4 junior engineers, conducting technical interviews and establishing training programs that accelerated ramp-up time by 50%

Lead DevOps Engineer

February 2019 – July 2020

Proclivity Systems • New York, NY

- Reduced infrastructure provisioning time by 90% through designing specification-driven IaC from scratch using Terraform, enabling autonomous environment creation
- Automated Bitbucket-Jenkins integration pipelines, reducing manual effort by 70% and enabling self-service pipeline job generation for development teams
- Reduced infrastructure costs by 25% through intelligent ECS deployment management and implementation of consistent AWS resource tagging strategy in Terraform
- Improved ETL workflow monitoring by 40% using Opswise; decreased bug count by 40% through implementation of automated testing protocols using Cypress and Jest
- Created Python scripts for automated troubleshooting and self-healing resolution of Hadoop failures, reducing failure resolution time by 40%

Full Stack Developer

January 2018 – February 2019

InMarketing • Norwalk, CT

- Improved application availability by 25% by architecting AWS Elastic Beanstalk deployment pipelines with auto-scaling, health checks, and blue-green deployment patterns
- Delivered full-stack applications for Fortune 500 clients (Python, JavaScript, AWS), establishing end-to-end development and cloud deployment expertise

EDUCATION

Master of Arts in Teaching

Liberty University • Lynchburg, VA • GPA: 3.5

May 2013

Bachelor of Science in Economics

City University of New York (CUNY) • GPA: 3.3

May 2010