

# DANIEL ESPONDA

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## PROFESSIONAL SUMMARY

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Staff Site Reliability Engineer with 10+ years building large-scale CI/CD platforms and Kubernetes infrastructure. Lead SRE for Datadog's CI infrastructure processing 13M+ builds monthly, saving \$7M annually. Expert in platform engineering, multi-region Kubernetes (5,000+ nodes), incident command, and cost optimization. Core Incident Commander leading enterprise-wide outage response.

## TECHNICAL SKILLS

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**Core:** Kubernetes, Docker, AWS, GCP, Python, Go, Java, Terraform, GitLab, Jenkins, CI/CD Platforms

**Distributed Systems:** Apache Kafka, gRPC, Service Mesh (Istio, Envoy), Event-Driven Architecture, Microservices

**Observability:** Prometheus, Grafana, Datadog, ELK Stack, SLI/SLO/SLA, Incident Management, On-Call Operations

**Security:** DevSecOps, Vault, PCI, SOC 2, FedRAMP, HIPAA, Policy-as-Code

## CERTIFICATIONS

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CKAD - Linux Foundation, 2020 | AWS Solutions Architect - Professional | AWS Solutions Architect - Associate | AWS Developer - Associate

## PROFESSIONAL EXPERIENCE

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### Datadog — Staff Software Engineer, CI Infrastructure

Remote, US

June 2025 - Present

- Engineer and evolve custom CI platform in Go/Python processing 13M+ builds/month—implementing distributed task scheduling, smart caching, and real-time analytics
- Architect and implement multi-tenancy framework in Go using namespace isolation and pod security policies across 100+ teams
- Continuously optimize CI infrastructure maintaining \$7M annual savings through workload placement algorithms and spot instance orchestration
- Lead 15+ RFC design reviews providing code-level feedback and prototyping proof-of-concepts to validate feasibility
- Serve as Core Incident Commander (since 2023), debugging distributed systems issues and implementing automated remediation

### Datadog — Senior Software Engineer, CI Infrastructure

Remote, US

August 2022 - June 2025

- Reduced annual CI costs from \$10M to \$3M (70% reduction, \$7M savings) through intelligent node selection and automated scaling
- Designed and built custom enterprise CI system with task engine framework—foundation for company-wide standard
- Reduced pipeline execution from 70 minutes to 7-12 minutes (90% faster) via persistent runners, Docker caching, and build impact analysis
- Optimized Gitaly for 20GB+ monorepo with 10,000+ commits/day, reducing Git clone times from 15+ minutes to <2 minutes
- Architected build impact analysis service eliminating unnecessary builds and reducing infrastructure waste by 60%+

- Became Core Incident Commander in 2023, training IC team members on incident response playbooks and best practices

### **VMware — Staff Site Reliability Engineer**

*Remote, TX*

*November 2020 - August 2022*

- Led VMware's largest SaaS Kubernetes platform: 5,000+ nodes, 100+ clusters, 99.99%+ uptime for mission-critical workloads
- Built custom Kubernetes operators in Go automating cluster lifecycle—reduced manual operations from 40 hrs/week to <12 hrs/week
- Deployed global Istio service mesh across multi-cloud with zero-trust networking, mTLS, and circuit breaking for 300+ microservices
- Maintained PCI, HIPAA, FedRAMP compliance through automated policy enforcement (OPA) and infrastructure-as-code validation

### **Toyota Connected — Senior Site Reliability Engineer**

*Plano, TX*

*October 2019 - November 2020*

- Built enterprise Kubernetes platform on AWS for 80+ teams, improving availability from 99.5% to 99.9%, reducing costs 40%
- Deployed global ELK cluster with Kafka processing 3TB/day, achieving 80% cost reduction vs commercial alternatives
- Created self-service developer platform reducing provisioning time from 3 days to 15 minutes

### **Capital One — Site Reliability Engineer Manager**

*Plano, TX*

*February 2016 - October 2019*

- Managed Kubernetes platform architecture spanning AWS/GCP supporting 500+ microservices as technical lead (60% IC, 40% leadership)
- Led cloud migration of 100+ microservices from on-premise to AWS/Kubernetes, completing 3 months ahead of schedule
- Reduced incident MTTR from 2.1 hours to 52 minutes through automated runbooks and enhanced observability

### **Pariveda Solutions — Senior Software Engineer**

*Plano, TX*

*August 2014 - February 2016*

- Architected automated hybrid cloud solutions using AWS, Chef, and Jenkins for enterprise clients
- Built RESTful API services for cross-platform mobile applications using Java and Spring Framework

## **EDUCATION**

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**University of Texas at Dallas — B.S. Computer Science, Cum Laude, GPA: 3.92**

**2013**

## **OPEN SOURCE & LEADERSHIP**

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**Kubernetes 1.21 Bug Triage - CNCF Release Team Member (2021) | Core Incident Commander - Enterprise outage response leader (2023-Present) | Technical Portfolio: [github.com/desponda](https://github.com/desponda)**