Curtis Goolsby

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Executive Summary:

Senior Infrastructure & Platform Architect with over a decade of experience driving large-scale cloud-native transformations across finance and tech. Proven leader in designing and implementing secure, GitOps-driven Kubernetes platforms, automating infrastructure with IaC tools like Terraform and Crossplane, and optimizing CI/CD pipelines for global-scale deployments. Recognized for cross-functional leadership, mentoring teams, and solving complex technical challenges with a strong foundation in mathematics and computer science. Blends deep technical expertise with strategic foresight to deliver scalable, resilient, and developer-friendly infrastructure solutions.

Skills:

- Programming Languages: Golang, Python, Bash
- Containerization & Orchestration: Docker, Kubernetes, ArgoCD, FluxCD
- Infrastructure as Code: Terraform, Ansible, Crossplane, Pulumi
- CI/CD Tools: GitHub Actions, Jenkins
- Monitoring & Logging: Prometheus, Grafana, ELK Stack
- Version Control: Git
- Other Tools: Confluence, Jira, Slack, Service Now, Nats, Kafka, Elasticsearch, Benthos, RESTful APIs, Cilium, Karpenter, vLLM, KubeFlow, Ollama

Education/Certifications:

- University of Arkansas:
  PhD ABD Physical Chemistry
  BA Chemistry with minor in Mathematics
  BS Chemistry
- University of Texas:
  BA Music Education with minor in Mathematics
- Certified Kubernetes Administrator
- Vault Associate
- Google Cloud Certified Professional Cloud Architect
- Terraform Associate
- Udacity Deep Learning Nanodegree
- Suzuki Violin Teacher

Work Experience:

Service Reliability Engineer:

DRW

2022-2025

- Spearheaded DRW's transition from Rancher by architecting and implementing DRW's next-generation Kubernetes platform — a fully GitOps-driven ecosystem including custom-built EKS

clusters, a secure image pipeline, and an opinionated IaC + CI/CD setup — resulting in Kubernetes becoming the default compute platform across DRW.
- Supported both on-prem and AWS-based Kubernetes environments, driving automation efforts to eliminate manual toil and increase platform consistency and availability.
- Proposed and helped implement a GitOps-based release engineering process; this effort increased release frequency by 1000x while reducing production outages from common to effectively zero.

Cloud Support Engineer/Specialist Technical Account Manager:

Amazon Web Services (AWS)
2020-2022

- Recipient of two company wide awards for excellence.
- Promoted to the role of being the Kubernetes Specialist focused on the Apple account.
- Created custom solutions for Apple increasing the efficacy and capabilities of EKS

Devops Engineer:

Redapt Inc
2019-2020

- Performed administrative duties on a production k8s cluster on AWS. Managed large updates and transitioned the underlying cloud architecture in order to provide an order of magnitude savings for the client.
- Created and managed the Jenkins CI/CD pipeline in production.
- Created workflow automations using python which save every member of the team 4-5 hours a month resulting in a large gain for the company as well as preventing human errors.
- Created terraform automation scripts to allow automatic onboarding of new clients increasing the offerings to include Stackdriver on GCP of our MSP team.

Program Director: DevOps and Data Engineering, Seattle

Insight Data Science, Seattle, WA
2019

- Created a Kubernetes platform, deployed by terraform, for data engineers which allows custom one-click cloud solutions, making an oft-repeated 50+ hour chore into an automated solution which takes 15 minutes.
- Managed 18 data engineers and 6 DevOps engineers in implementing their projects working with technologies such as Kafka, Hadoop, MongoDB and Elasticsearch.

Research Assistant

University of Arkansas, Fayetteville, AR
2013-2021

- PhD, ABD: Physical Chemistry
- Translated bond market analysis algorithms for utilization in a theoretical chemistry context including Hidden Markov Models, Expectation Maximizations, and other novel extensions.
- Created a methodology utilizing a Time-Lagged Auto-encoder for enhanced sampling of time-series data.
- Invented a process by which predictions are made for time-series data based upon the ideas found in recurrent neural networks for language analysis.