

Morgan Casey | DevOps Engineer | Cloud Infrastructure & Automation

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Basics

DevOps engineer with 6+ years of experience designing, automating, and operating cloud-native infrastructure on AWS and Azure. Skilled in building CI/CD pipelines, implementing infrastructure as code, and orchestrating containerized workloads with Kubernetes. Proven record of cutting deployment times, improving system reliability, and building strong collaboration between development and operations teams.

- Reduced average deployment time from 45 minutes to 8 minutes by migrating legacy Jenkins pipelines to GitLab CI/CD.
- Managed 200+ microservices across multiple Kubernetes clusters using Helm, Argo CD, and Terraform.
- Implemented an observability stack with Prometheus, Grafana, and the ELK Stack, cutting mean time to detection by 40%.

Education

University of Texas at Austin

<https://www.utexas.edu/>

Bachelor, Computer Science, Score: 3.7

Aug 2014–May 2018

- Focused on distributed systems, networking, and cloud computing
- Completed a capstone project on container orchestration and cluster scheduling
- Served as a teaching assistant for the Operating Systems course for two semesters

Courses: Operating Systems, Computer Networks, Distributed Systems, Database Systems, Cloud Computing, Algorithms and Data Structures

Work

CloudForge Systems

<https://www.cloudforgesystems.com>

Senior DevOps Engineer

Jan 2022–Present

- Lead a team of 4 DevOps engineers managing multi-region AWS infrastructure for a SaaS platform serving 500K+ users
- Architected GitOps workflows with Argo CD and Terraform, enabling self-service deployments for 12 product teams
- Reduced cloud spend by 28% through right-sizing, reserved instances, and automated scheduling of non-production environments
- Designed a disaster recovery strategy with cross-region backups and automated failover, achieving an RTO of 15 minutes and an RPO of 5 minutes
- Mentored junior engineers and established on-call best practices, decreasing escalations by 35%

Keywords: AWS, Terraform, Kubernetes, Argo CD, GitOps, Cost Optimization

NimbusStack

<https://www.nimbusstack.io>

DevOps Engineer

Jun 2019–Dec 2021

- Built and maintained CI/CD pipelines in GitLab CI for 80+ microservices, integrating automated testing and security scans
- Migrated a monolithic application to Kubernetes, improving scalability and reducing infrastructure costs by 20%
- Implemented infrastructure as code with Terraform and Ansible across 300+ EC2 instances and RDS databases
- Set up centralized logging and monitoring with the ELK Stack and Prometheus, enabling proactive alerting
- Partnered with developers to containerize applications and optimize Docker images for faster cold starts

Keywords: GitLab CI, Kubernetes, Terraform, Ansible, Prometheus, Docker

DataHarbor

<https://www.dataharbor.com>

Cloud Operations Engineer

Jul 2018–May 2019

- Managed AWS EC2, S3, and RDS resources for an internal data analytics platform
- Automated routine operational tasks with Python and Bash, saving roughly 15 hours of manual effort per week
- Assisted in implementing backup and recovery procedures for critical production databases
- Participated in the on-call rotation and incident response for production systems

Keywords: AWS, Python, Bash, Linux, Backup

Languages

English: Native or Bilingual Proficiency

Keywords: TOEFL 115

Spanish: Limited Working Proficiency

Keywords: DELE B2

Skills

Cloud Platforms: Expert

Keywords: AWS, Azure, GCP, EC2, S3, Lambda

CI/CD: Advanced

Keywords: GitLab CI, Jenkins, GitHub Actions, Argo CD, CircleCI

Containers & Orchestration: Expert

Keywords: Kubernetes, Docker, Helm, Istio, OpenShift

Infrastructure as Code: Advanced

Keywords: Terraform, Ansible, CloudFormation, Pulumi

Monitoring & Logging: Advanced

Keywords: Prometheus, Grafana, ELK Stack, Datadog, CloudWatch

Scripting & Automation: Expert

Keywords: Python, Bash, Go, PowerShell

Security & Compliance: Intermediate

Keywords: IAM, Vault, SOC 2, CIS Benchmarks, Trivy

Awards

Cloud Innovator Award

CloudForge Systems

Nov 2023

Recognized for designing and implementing a cost optimization program that saved more than \$500K annually.

Certificates

AWS Certified DevOps Engineer - Professional<https://aws.amazon.com/certification/certified-devops-engineer-professional/>

Amazon Web Services

Mar 2022

Certified Kubernetes Administrator (CKA)

<https://www.cncf.io/certification/cka/>

Cloud Native Computing Foundation

Aug 2021

HashiCorp Certified: Terraform Associate

<https://www.hashicorp.com/certification/terraform-associate>

HashiCorp

Jan 2021

Publications

DevOps Today

<https://www.devopstoday.com/gitops-multi-cluster-kubernetes>

Implementing GitOps for Multi-Cluster Kubernetes

Sep 2023

- Discusses patterns for managing multiple Kubernetes clusters with Argo CD and Terraform
- Covers security, drift detection, and progressive delivery strategies

Projects

KubeWatch

<https://github.com/morgancasey/kubewatch>

Open-source Kubernetes monitoring and alerting toolkit

Feb 2022–Nov 2023

- Built a lightweight operator that watches cluster events and routes alerts to Slack and PagerDuty
- Integrated with Prometheus Alertmanager for advanced routing and silencing
- Reached 500+ stars on GitHub and is used by more than 30 organizations

Keywords: Kubernetes, Go, Prometheus, Operator

Terraform AWS Landing Zone

<https://github.com/morgancasey/terraform-aws-landing-zone>

Reusable Terraform modules for secure AWS multi-account setups

Mar 2021–Aug 2022

- Published a set of Terraform modules implementing AWS Control Tower best practices
- Automated account provisioning, guardrails, and centralized logging
- Reduced new account setup time from days to under an hour

Keywords: Terraform, AWS, Landing Zone, Security

Interests

Open Source: CNCF, Kubernetes, Terraform

Outdoor Activities: Hiking, Running, Cycling

Volunteer

Austin DevOps Community

Workshop Organizer

<https://www.meetup.com/austin-devops/>

Mar 2020–Present

- Organize monthly workshops on cloud-native technologies and DevOps practices
- Coordinate with speakers and sponsors to deliver free technical education
- Mentor newcomers transitioning into DevOps roles