

# Hassan Alvarado

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## SUMMARY

Senior **AWS** DevOps Engineer with 7 years of experience building, automating, and operating AWS platforms for complex customer-facing applications. Brings hands-on depth across EC2, S3, Lambda, RDS, EKS, Kubernetes, Terraform, **CI/CD**, CloudWatch, Prometheus, and Grafana. Leads secure infrastructure delivery with Python, Bash, GitHub Actions, Jenkins, GitLab CI, Argo CD, Helm, and Docker. Known for taking ownership of difficult production incidents, tracing failures across application and infrastructure layers, and turning findings into shared libraries, runbooks, and lasting engineering improvements. Recent experiments with **Claude Code** and **Copilot CLI** accelerated runbook creation, pipeline analysis, and infrastructure review. Ready to bring practical AWS leadership, clear communication, and dependable delivery to a remote product team serving ambitious clients.

## EXPERIENCE

### Senior AWS DevOps Engineer

March 2024 - Present

Canyon Ridge Commerce

*Remote, NC*

Owns AWS platform engineering for more than 30 microservices across EKS, RDS, S3, Lambda, and EC2. Partners with product engineers in Agile and Scrum delivery, leads production reliability work, and guides secure infrastructure decisions that support dependable client releases.

- Owned **AWS infrastructure** for 30+ microservices across EKS, RDS, S3, **Lambda**, and EC2, aligning capacity and reliability work with product commitments.
- Rebuilt **Terraform** modules for networking, IAM, EKS, and managed databases, reducing configuration drift across development, staging, and production environments.
- Directed production **Kubernetes** upgrades with resource policies, pod disruption budgets, and deployment safeguards, improving workload stability for customer-facing services.
- Modernized GitHub Actions and Argo CD pipelines with testing, image scanning, approval gates, and rollback paths, enabling safer sprint releases.
- Connected **CloudWatch**, **Prometheus**, and Grafana signals to service dashboards and actionable alerts, shortening triage for latency, queue, and database incidents.
- Piloted Claude Code and Copilot CLI for runbook creation, Terraform review, and pipeline diagnostics, preserving security controls through engineer validation.

### AWS DevOps Engineer

July 2021 - February 2024

Redwood Harbor Systems

*Charlotte, NC*

Engineered multi-account AWS foundations and production Kubernetes operations for a regulated SaaS platform. Supported Scrum teams through infrastructure automation, CI/CD delivery, observability, compliance controls, and cross-layer incident resolution.

- Engineered multi-account AWS foundations with IAM boundaries, private networking, encryption, and audit logging, supporting regulated SaaS **compliance** reviews.
- Migrated six production services from unmanaged hosts to **EKS** using Helm, ingress controls, Kubernetes deployments, and rolling release methods.
- Created Terraform workflows with remote state controls, module versioning, policy checks, and peer review, making infrastructure changes traceable.
- Maintained Jenkins and GitLab CI pipelines for Java and **Python** services, adding tests, container builds, artifact promotion, and deployment approvals.
- Built Prometheus and **Grafana** dashboards with CloudWatch signals and centralized **logging** queries, improving root-cause evidence during on-call events.
- Resolved networking, DNS, and deployment failures across application and platform layers, then converted findings into Python and **Bash** utilities and searchable documentation.

### Cloud DevOps Engineer

August 2019 - June 2021

Beacon Peak Technologies

*Atlanta, GA*

Supported AWS environments and delivery workflows for a portfolio of web applications. Contributed to container modernization, Terraform adoption, CI/CD automation, monitoring, security practices, and on-call operations within distributed Agile teams.

- Supported AWS environments across **EC2**, **S3**, RDS, Lambda, VPC, and security groups, helping keep web applications available for customer workloads.
- Containerized legacy services with Docker and deployed them to Kubernetes clusters, standardizing health checks, secrets handling, and resource definitions.
- Developed Terraform configurations for repeatable application environments, giving distributed **Agile** teams clearer review points before infrastructure changes.

- Extended Jenkins **CI/CD** pipelines with Python and Bash **automation** for build validation, database migration checks, artifact promotion, and controlled deployments.
- Implemented CloudWatch alarms and Grafana views for compute, database, and application indicators, giving support engineers stronger incident evidence.
- Participated in on-call rotations, documented incident timelines, reproduced defects in lower environments, and presented corrective actions during **Scrum** retrospectives.

**DevOps Engineering Intern**

May 2018 - July 2019

Blue Mesa University Technology Lab

Tempe, AZ

Completed supervised **DevOps engineering** work for a university software research project. Built shared AWS lab environments, practiced Terraform and Kubernetes delivery, created **monitoring** exercises, and documented findings for faculty mentors and student teams.

- Built a supervised AWS lab with EC2, S3, Lambda, and **RDS**, demonstrating repeatable **deployment** patterns for a university software research project.
- Wrote Terraform configurations and Bash scripts for network setup, application provisioning, and environment teardown, supported by peer-reviewed README files.
- Packaged a Python service in Docker and deployed it to **Kubernetes**, testing rolling updates, service discovery, readiness probes, and resource limits.
- Created CloudWatch, Prometheus, and Grafana exercises that helped student teams compare infrastructure and application signals.
- Added Jenkins stages for source validation, automated tests, container image creation, and deployment into a shared demonstration environment.
- Presented failure-reproduction results and security recommendations to faculty mentors, incorporating feedback into project documentation and the final report.

**PROJECTS**

**AI-Assisted DevOps Runbook Library 📅 2025**

Partnered with platform engineers to test Claude Code and Copilot CLI for runbook drafts, Terraform reviews, and pipeline diagnostics. Human review stayed central, giving team members faster starting points without weakening change controls.

**Multi-Account Kubernetes Delivery Foundation 📅 2023**

Worked with security, product, and application teams on a reusable AWS and EKS foundation. Terraform modules, Helm charts, policy checks, and release gates gave teams a calmer path from code commit to production.

**Observability and Incident Learning Hub 📅 2021**

Collaborated with support engineers to connect CloudWatch, Prometheus, Grafana, and operational notes. Shared dashboards and incident timelines helped people find evidence sooner and turn difficult events into practical follow-up work.

**LEADERSHIP & AWARDS**

- Outstanding Senior Capstone Presentation, Arizona State University, 2018. Faculty recognized clear technical reasoning and thoughtful delivery.
- Dean's List, Arizona State University, 2016-2018. Sustained academic performance alongside hands-on computing work.
- Scrum Delivery Facilitator, Canyon Ridge Commerce Engineering Guild, 2025-Present. Helps peers share delivery lessons and improve team habits.

**EDUCATION**

**Bachelor's Degree in Computer Science**

2018

Arizona State University GPA: 3.8

Tempe, AZ

**Coursework:** Cloud computing, Operating systems, Computer networks, Software engineering, Database systems

**CERTIFICATIONS**

- Certified Kubernetes Administrator (CKA) 📅 2024
- AWS Certified Solutions Architect - Associate 📅 2023
- HashiCorp Certified: Terraform Associate 📅 2022

**TECHNICAL SKILLS**

- **AWS Services:** EC2, S3, Lambda, RDS, EKS
- **AWS Networking:** VPC, IAM, security groups
- **Kubernetes Platforms:** Kubernetes, Helm, Argo CD
- **Infrastructure as Code:** Terraform, HCL, remote state

- **CI/CD Platforms:** Jenkins, GitHub Actions, GitLab CI
- **Observability Tools:** CloudWatch, Prometheus, Grafana
- **Containers:** Docker, container images, registries
- **Automation Languages:** Python, Bash, Shell scripting
- **Source Control:** Git, GitHub, GitLab
- **Security and Compliance:** IAM boundaries, encryption, audit logging
- **AI DevOps Tools:** Claude Code, Copilot CLI, agentic AI
- **Delivery Methods:** Agile, Scrum, sprint retrospectives

SKILLS

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- AWS
- Python
- Git
- Agile / Scrum
- Kubernetes
- Bash
- Cloud security
- Observability
- Terraform
- Docker
- Compliance
- Advanced English
- CI/CD
- Linux
- Incident response

PROFESSIONAL AFFILIATIONS

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- AWS Cloud Study Group Mentor, Triangle Cloud Native Meetup, 2024-Present. Shares practical cloud lessons with engineers at varied career stages.
- Member, Cloud Native Computing Foundation community, 2022-Present. Follows Kubernetes operations, platform engineering, and open-source practices.

LANGUAGES

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- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

REFERENCES

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AVAILABLE ON REQUEST