

QUENTON HORTON

Cloud Engineer | AWS · Terraform · CI/CD | Active Public Trust
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PROFESSIONAL SUMMARY

Cloud engineer who designs, builds, and operates AWS infrastructure as code with Terraform, holding an active federal Public Trust and 2+ years of production operations experience at NOAA. Provisions multi-tier, multi-AZ environments (VPC, ALB, ECS Fargate, IAM, CloudWatch), automates delivery with CI/CD pipelines using GitHub Actions and OIDC, manages remote state, and applies least-privilege security throughout. Diagnoses and remediates failures across networking, IAM, DNS, and system layers. Pursuing AWS Solutions Architect Associate.

CORE TECHNICAL SKILLS

- **Infrastructure as Code:** Terraform (modular provisioning, remote S3 state with native locking, drift detection); reusable multi-tier, multi-AZ architectures
- **AWS:** VPC (public/private subnets, route tables, security groups, NACLs, NAT, Internet/Gateway endpoints), EC2, ECS/Fargate, ECR, ALB, S3, CloudFront, Lambda, API Gateway, DynamoDB, IAM, CloudWatch, SNS, Route 53, ACM
- **CI/CD & Automation:** GitHub Actions, OIDC role-based authentication (no long-lived keys), automated plan/apply and build-push-deploy pipelines, task-definition revision management
- **Containers:** Docker, Amazon ECS on Fargate, ECR, container orchestration across Availability Zones behind an ALB
- **Networking & Security:** TCP/IP, DNS, subnetting/CIDR, routing, load balancing, IAM least-privilege, IAM Identity Center (SSO), MFA
- **Systems & Scripting:** Linux administration, Bash (production), Python, Git/GitHub; CloudWatch, Kibana / ELK, Nagios, SolarWinds

PROJECTS

ECS Fargate Container Deployment — IaC + CI/CD AWS · Terraform · 2026

github.com/Quenton-Horton/ecs-fargate-lab

- Provisioned a production-topology container platform in Terraform: VPC with public/private subnets across two AZs, ALB, NAT gateway, ECS cluster, and a Fargate service running tasks in private subnets behind the load balancer.
- Built a full CI/CD pipeline (GitHub Actions + OIDC) that builds a Docker image, pushes to ECR, registers a new task-definition revision, and rolls the ECS service with zero stored credentials.
- Scoped the deploy IAM role to least privilege with repo-scoped OIDC trust; layered security groups so tasks accept traffic only from the ALB.

Cloud Resume Challenge — Serverless + CI/CD AWS · Terraform · 2026

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- Built a serverless application (S3 + CloudFront + OAC, Lambda + API Gateway + DynamoDB) with a custom domain (Route 53 + ACM), CI/CD via GitHub Actions and OIDC, and Terraform state migrated to a remote S3 backend with native locking.
- Hardened the Lambda execution role from a broad managed policy (~80 permissions) to a single scoped action — least-privilege access control.

AWS Break/Fix Lab — Multi-Tier VPC & Incident Response

AWS · Terraform · 2026

github.com/Quenton-Horton/aws-breakfix-lab

- Provisioned a multi-tier VPC in Terraform (2 AZs, ALB, NAT, three layered security groups, scoped IAM, DynamoDB with a Gateway VPC endpoint, CloudWatch + SNS), then diagnosed and documented eight production-style failure scenarios with full root-cause write-ups.

PROFESSIONAL EXPERIENCE

FedGeek / ERT — NOAA Affiliate Washington, D.C. | March 2024 – Present

Operations Support Specialist — ESPC Help Desk

- Monitor satellite data ingestion across five ground-system programs (GOES, JPSS, EUMETSAT, DMSP, JMA) within NCCF, verifying on-orbit arrivals and flagging threshold exceptions for escalation.
- Triage and escalate data anomalies impacting service levels to Tier 2 engineers via JIRA, ensuring resolution within prescribed SLA windows.

- Maintain real-time operational awareness using Nagios, SolarWinds, and Kibana dashboards, supporting incident workflows across multiple technical teams.
- Coordinated multi-team incident response during the Asheville facility outage, rerouting satellite data ingestion to Wallops Island while managing real-time communication across network, PDA, and product-delivery engineers and external UCAR customers.
- Selected as 1 of 4 from a 24-person team for L3Harris GeoCloud Compute System training; supporting active deployment of JIRA-based incident-ticketing workflows for GOES-18/19 data-impact users.
- Promoted to shift lead; recognized with the 2025 Peer Award. Hold an active federal Public Trust supporting mission-critical NOAA satellite data systems and controlled information.

ADDITIONAL EXPERIENCE

Mayor's Office of Community Relations & Services Washington, D.C. | 2018 – 2019

Specialist

- Tracked and managed resident cases across District agencies using Salesforce; coordinated 24-hour emergency response and weekly reporting.

United States Holocaust Memorial Museum Washington, D.C. | 2006 – 2018

Project Advisor / Student Ambassador

- Advised program leadership; led tours for VIPs, law enforcement, and international visitors; trained guides and curated the Main Exhibition visitor experience.

CERTIFICATIONS & EDUCATION

- CompTIA A+ (active) | CompTIA Security+ (2023-2026) | IBM Cybersecurity Analyst Professional Certificate (Coursera)
- AWS Solutions Architect Associate — In Progress

University of the District of Columbia — Bachelor of Arts, English | GPA: 3.4