

RAAVY HOWARD

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EXECUTIVE SUMMARY

Principal Site Reliability, Platform & Cloud Infrastructure Engineer with 10+ years of software engineering experience and 5+ years specializing in enterprise SRE, resilience engineering, Kubernetes platform availability, and automated CI/CD pipelines. Proven track record architecting high-availability EKS clusters, establishing proactive monitoring frameworks, mitigating system bottlenecks, and optimizing cloud compute environments. Advanced AI power user/engineer leveraging generative AI for accelerated system observability, failure mode analysis, and automated incident response.

TECHNICAL SKILLS & QUALIFICATIONS

- **SRE & Reliability Engineering:** SLO/SLI Definition, Chaos Engineering, Incident Response & On-Call Escalation, Self-Healing Compute, High Availability (HA) Architecture, Root Cause Analysis (RCA).
- **Containerization & Orchestration:** Kubernetes (EKS, Helm, Cluster Autoscaling, Self-Healing Compute), ECS, Docker, ArgoCD.
- **Infrastructure-as-Code & Automation:** Terraform, Serverless Framework, Ansible, Python, Bash, Shell, YAML, GitHub Actions Workflow Automation, Jenkins, Codefresh, CodeBuild.
- **Observability & Proactive Monitoring:** Splunk, New Relic, Datadog, AWS CloudWatch, Synthetic Monitoring, Proactive Alerting, Distributed Tracing & System Telemetry.
- **Security, Compliance & Networking:** Enterprise Risk Remediation, Vulnerability Mitigation, Auth0, Cognito, Network Architecture, Traffic Routing, Distributed Systems Security, Corporate Governance.
- **Performance & Testing:** Load Testing Strategy, Stress Testing Constraints, Application Performance Optimization, Capacity Planning & Compute Right-Sizing.
- **AI & Emerging Tech:** AI Engineering, Generative AI Tooling, AI-assisted Observability & Automated Diagnostics, Automated Infrastructure Generation.
- **Programming Languages:** Python, C#, C++, C, Java, JavaScript, Terraform HCL, JSON, XML, YAML.

WORK EXPERIENCE

Capital One | Principal Platform Engineer

November 2024 – October 2026

- **Enterprise EKS Reliability Architecture:** Architected and deployed an enterprise critical, highly available EKS stack for Virtru Secure Gateway, engineered robust multi-region failover mechanics and SLO-aligned telemetry (Splunk, New Relic) to ensure 99.99% system uptime.
- **Infrastructure Modernization & Self-Healing:** Led modernization initiatives migrating legacy AWS infrastructure into fully automated, self-healing Kubernetes environments using Helm, Jenkins, and ArgoCD, reducing manual interventions, human error, and operational toil.
- **Network Security & Architecture:** Managed network architecture and security controls for enterprise-critical platforms, mitigated system vulnerabilities and established organizational standards for secure deployments and vulnerability management on an enterprise critical platform.
- **Cost Optimization & Right-Sizing:** Drove compute cost reductions across an enterprise critical platform by right-sizing EKS workloads and deploying optimal, performant cloud infrastructure.

- **Robust Load Testing & Stress Engineering:** Engineered rigorous load testing and chaos/stress testing protocols to proactively identify failure modes, establish platform capacity limits, and eliminate bottlenecks in distributed Linux ecosystems.
- **Proactive Monitoring & Synthetic Triage:** Engineered comprehensive observability setups including synthetic transaction monitors, custom alerting rules, and real-time dashboards to detect and remediate potential outages before customer impact.
- **Incident Response & Governance:** Defined incident response playbooks and blameless post-mortem standards, maintaining strict alignment with enterprise governance while driving down Mean Time to Resolution (MTTR).
- **Technical Leadership & Mentorship:** Trained and mentored cross-functional engineering teams on maintaining, updating, and troubleshooting complex cloud platforms and associated CI/CD workflows.

Somos Inc. | Cloud Engineer 1

December 2020 – March 2024

- Designed and implemented 30+ production CI/CD pipelines using YAML, GitHub Actions, and Shell scripting, accelerating deployment velocity by over 30%.
- Standardized cloud infrastructure across 80% of company product lines through automated Terraform templates and Serverless framework architectures.
- Managed AWS identity and governance (IAM roles, users, permissions) across multi-tenant environments including AWS, GitHub, and Codefresh.
- Established risk management, disaster recovery, and vulnerability scanning workflows for Kubernetes clusters and microservices.
- Led time-sensitive, customer-facing production troubleshooting for distributed network protocols and lower-environment stability.

Somos Inc. | Cloud Engineer Intern

June 2020 – December 2020

- Drove enterprise adoption of Terraform IaC templates, training internal teams on standardizing AWS resource provisioning.
- Implemented security best practices for GitHub organization management and maintained centralized technical documentation systems.

Opal Luxx Games | Software Engineer

January 2014 – August 2019

- Engineered 8 desktop applications and 2 mobile gaming titles, integrating Google AdMob monetization engines and managing custom web infrastructure.

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate**

EDUCATION

Bachelor of Business Administration (B.B.A.), Computer Science with a Business Focus

University of Maryland Eastern Shore (UMES) | Graduated: May 2020