

Alejandro Ng

Senior Cloud Engineer, Cloud Native Infrastructure

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SUMMARY

Cloud engineer with eight years of experience building and operating AWS infrastructure, Kubernetes platforms, Linux systems, and automated delivery workflows for security sensitive environments. Holds active **TS/SCI clearance**, Security+ CE, and **AWS Certified Solutions Architect** Associate certification. Develops reliable multi tenant platforms through Terraform, Terragrunt, Ansible, Helm, ArgoCD, and CI/CD automation. Manages RKE2 and Rancher clusters, **container orchestration**, monitoring, logging, upgrades, and production troubleshooting. Uses Python, Bash, Groovy, and Golang for operational tooling and repeatable platform changes. Partners with application engineering teams on scalable architecture, cost awareness, security controls, incident analysis, and service reliability. Brings practical experience with Grafana, Prometheus, Elasticsearch, **Kubernetes Operators**, Pulumi, and Crossplane, helping mission focused teams operate cloud native workloads with confidence.

EXPERIENCE

Senior Cloud Engineer, Cloud Platforms

Blue Ridge Secure Platforms 📅 April 2023 - Present 📍 Reston, VA

Leads AWS and Kubernetes platform engineering for multi tenant applications in security sensitive environments. Owns infrastructure automation, cluster operations, observability, delivery controls, and architecture collaboration while maintaining active TS/SCI access requirements.

- Engineered **AWS** and **Kubernetes** platforms for multi tenant applications supporting security sensitive delivery requirements.
- Maintained **Terraform**, **Terragrunt**, Ansible, and Helm automation for repeatable platform changes and auditable releases.
- Operated RKE2 and **Rancher** clusters, resolving deployment, networking, resource, and service behavior issues.
- Implemented ArgoCD delivery controls, giving application teams traceable promotion across cloud native environments.
- Built Grafana, Prometheus, and **Elasticsearch** workflows, improving platform visibility during incident investigation.
- Partnered with application engineers on scalable, reliable, cost aware architecture for classified workloads.

Cloud Infrastructure Engineer, AWS Platforms

Potomac Mission Technologies 📅 January 2021 - March 2023 📍 Herndon, VA

Managed AWS infrastructure, Linux systems, Kubernetes environments, and delivery automation for containerized applications. Combined **infrastructure as code**, scripting, cluster administration, and technical guidance to reduce manual work and improve operational consistency.

- Deployed AWS infrastructure and Linux systems supporting containerized application environments and engineering teams.
- Automated provisioning with Terraform and **Ansible**, then packaged Kubernetes configuration through **Helm** charts.
- Administered Kubernetes deployments, **monitoring**, logging, upgrades, and **troubleshooting** across development and test clusters.
- Developed Python and Bash utilities for operational checks, configuration validation, and deployment automation.
- Integrated **CI/CD pipelines** with infrastructure workflows, reducing manual configuration steps during environment delivery.
- Evaluated Kubernetes Operators and GitOps practices, documenting adoption guidance for recurring platform services.

DevOps Engineer, Delivery Automation

Capital Cloud Integration 📅 June 2019 - December 2020 📍 Arlington, VA

Supported AWS hosted applications, Linux servers, container delivery, and infrastructure automation. Built practical deployment workflows, observability dashboards, and operational scripts that helped engineering teams release changes consistently and investigate service behavior.

- Supported AWS applications and **Linux** servers through deployment, configuration, patching, and incident response.
- Created **Infrastructure as Code** modules for repeatable development and testing environments.
- Built **CI/CD** automation for container builds and deployments with documented rollback procedures.
- Used Grafana and **Prometheus** dashboards to investigate service and infrastructure behavior.
- Wrote **Bash** and **Python** scripts that automated health checks and routine administration.
- Supported Kubernetes troubleshooting and documented operational procedures for engineering handoffs.

Junior Systems Engineer, Linux Operations

Shenandoah Systems Lab 📅 September 2017 - May 2019 📍 Fairfax, VA

Administered Linux development systems and AWS resources under senior engineering review. Contributed to configuration automation, container exercises, documentation, log analysis, and scripted delivery improvements while building a foundation in cloud operations.

- Administered Linux development systems and AWS resources under senior engineering review.
- Automated routine server **configuration** with Ansible and shell scripting.
- Supported container **deployment** exercises and applied **Kubernetes** workload and service concepts.
- Maintained technical documentation for environment builds, configuration changes, and **troubleshooting**.
- Investigated application and server logs to isolate deployment and configuration issues.
- Tested scripted build and deployment steps, contributing to **CI/CD** workflow improvements.

PROJECTS

Multi Tenant Kubernetes Observability 📅 2024

Reliable platforms give mission teams room to focus on their work. Built an observability initiative using Grafana, Prometheus, and Elasticsearch, connecting platform signals with practical incident investigation across shared Kubernetes services.

GitOps Delivery Modernization 📅 2022

Repeatable delivery protects engineering attention and strengthens trust in every release. Evaluated ArgoCD, Helm, and Kubernetes Operators for recurring platform services, then documented adoption guidance for consistent application promotion.

LEADERSHIP & AWARDS

- Received senior engineering recognition for dependable AWS and Kubernetes platform ownership.
- Earned team appreciation for clear incident analysis and practical operational documentation.
- Selected to guide application teams through infrastructure automation and GitOps adoption decisions.

EDUCATION

Bachelor of Science in Information Technology

George Mason University 🎓 GPA: 3.5 📅 2017 📍 Fairfax, VA

Coursework: Cloud infrastructure, Linux administration, Network security, Systems analysis

CERTIFICATIONS

- CompTIA Security+ CE 📅 2024
- AWS Certified Solutions Architect Associate 📅 2025

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, AWS EC2, AWS VPC
- **Kubernetes Platforms:** Kubernetes, Rancher, RKE2
- **Infrastructure as Code:** Terraform, Terragrunt, Pulumi
- **Configuration Management:** Ansible, Helm, Crossplane
- **Delivery Automation:** CI/CD, ArgoCD, GitOps
- **Observability Tools:** Grafana, Prometheus, Elasticsearch
- **Programming Languages:** Python, Bash, Groovy
- **Systems Administration:** Linux, cloud server deployment, server maintenance
- **Container Operations:** Container orchestration, Kubernetes Operators, deployments
- **Security Credentials:** TS/SCI clearance, Security+ CE, AWS Solutions Architect

SKILLS

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|--------------|-----------|----------|--------------|
| • AWS | • Ansible | • Bash | • Rancher |
| • Kubernetes | • Helm | • Python | • ArgoCD |
| • Terraform | • Linux | • Groovy | • Prometheus |
| • Terragrunt | • CI/CD | • Golang | |

PROFESSIONAL AFFILIATIONS

- Active TS/SCI clearance supporting security sensitive cloud engineering work.
- CompTIA Security+ CE community participant focused on secure infrastructure operations.

LANGUAGES

- English (Native)
- Mandarin Chinese (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST