



## GABRIEL ENNS

DevOps

(831) 239-4782 • gabesenns@gmail.com • gabrielenns.com • Elk Grove, CA

### Summary

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DevOps Engineer with hands-on experience building cloud infrastructure and automation pipelines on AWS. Designed a production-grade EKS environment with Terraform IAC, GitLab CI/CD, and full observability stack. Operates a three-node Proxmox homelab achieving 99.9% uptime serving multiple users. Background in field service brings systematic troubleshooting skills and clear technical communication to infrastructure challenges.

### Projects

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#### AWS EKS Infrastructure Portfolio

Location

Date period

Enterprise-level Kubernetes platform for DevOps

- Architected fully automated EKS cluster provisioning via Terraform with GitLab CI/CD pipelines, reducing deployment time to under 20 minutes.
- Implemented GitOps workflow with zero-touch deployments: merging to main triggers Terraform apply and Kubernetes rollouts automatically.
- Optimized infrastructure costs to approximately \$50/month using EC2 spot instances and auto-scaling policies.
- Configured full observability stack with Prometheus, Grafana, and CloudWatch Container Insights.
- Integrated Authentik SSO for centralized authentication across cluster services.
- Technologies: Terraform, AWS EKS, Kubernetes, GitLab CI/CD, Helm, Prometheus, Grafana, Traefik.

#### On-Demand Infrastructure Demo Platform

Location

Date period

Serverless API enabling live infrastructure deployment from portfolio website

- Built a serverless backend allowing visitors to deploy live EKS environments on demand, demonstrating real-world cloud architecture.
- Achieved approximately \$2 per month in operational costs with zero idle charges using AWS Lambda and HTTP API v2.
- Implemented idempotent deployment logic with DynamoDB conditional writes, preventing duplicate infrastructure.
- Created secure log retrieval with automatic masking of AWS keys, tokens, passwords, and PII.
- Configured EventBridge scheduled rules for automatic resource cleanup and cost control.
- Technologies used include AWS Lambda, API Gateway, DynamoDB, Node.js, Terraform, and EventBridge.

#### Homelab Infrastructure

Location

Date period

Three-node virtualization cluster serving family across multiple locations

- Designed and operated a three-node Proxmox cluster with high availability, achieving 99.9% uptime.
- Reduced manual maintenance time by 80% through Ansible automation and GitLab CI/CD pipelines.
- Implemented a security layer with Traefik reverse proxy, CrowdSec threat detection (zero security incidents), and Authentik SSO.
- Deployed a comprehensive monitoring stack with Prometheus, Grafana, and Loki for metrics, dashboards, and log aggregation.
- Managed a mixed storage environment with ZFS on SSDs for VMs and HDD array for media and backups.
- Technologies used include Proxmox VE, Docker, Ansible, Traefik, CrowdSec, Authentik, Prometheus, Grafana, and WireGuard.

### Skills

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AWS • EKS • Lambda • API Gateway • DynamoDB • S3 • EventBridge • Terraform • Kubernetes • Helm • GitLab CI/CD • Ansible • Infrastructure as Code • GitOps workflows • Docker • Proxmox VE • LXC Containers • Prometheus • Grafana • Loki • CloudWatch • Container Insights • VLAN Segmentation • WireGuard VPN • Traefik • CrowdSec • Authentik SSO • Pi-hole • Linux • Ubuntu • Debian • Windows • macOS

## Certifications

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AWS Certified DevOps Engineer — In Progress

Certified Kubernetes Administrator (CKA) — In Progress

HashiCorp Terraform Associate — In Progress

## Experience

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Total Industries	West Sacramento, CA
Field Technician	12/2024 - 08/2025

Company Description

- Diagnosed and repaired complex mechanical and electrical systems, applying advanced troubleshooting methodologies to minimize client downtime.
- Managed on-site operations independently, maintaining clear and concise communication with customers to explain technical issues and resolutions.
- Ensured detailed documentation for all service and repair orders, creating a clear audit trail of actions taken.

Casco Dock and Door	West Sacramento, CA
Field Technician	07/2023 - 07/2024

Company Description

- Performed on-site diagnostics and repairs on a variety of equipment, ensuring reliability and safe operation for clients.
- Provided excellent customer service through professional communication and prompt issue resolution, guaranteeing project success.

Vector Metals	Santa Cruz, CA
Welder/fabricator	08/2022 - 07/2023

Company Description

- Managed all phases of custom fabrication projects, from initial material ordering to final on-site completion.
- Delivered excellent client service by providing clear, consistent communication and professionally addressing all needs.