



## GABRIEL ENNS

DevOps

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### Summary

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

AWS EKS Infrastructure Portfolio	Location	Date period
Enterprise-level Kubernetes platform for DevOps		
<ul style="list-style-type: none"><li>Architected fully automated EKS cluster provisioning via Terraform with GitLab CI/CD pipelines, reducing deployment time to under 20 minutes.</li><li>Implemented GitOps workflow with zero-touch deployments: merging to main triggers Terraform apply and Kubernetes rollouts automatically.</li><li>Optimized infrastructure costs to approximately \$50/month using EC2 spot instances and auto-scaling policies.</li><li>Configured full observability stack with Prometheus, Grafana, and CloudWatch Container Insights.</li><li>Integrated Authentik SSO for centralized authentication across cluster services.</li><li>Technologies: Terraform, AWS EKS, Kubernetes, GitLab CI/CD, Helm, Prometheus, Grafana, Traefik.</li></ul>		
On-Demand Infrastructure Demo Platform	Location	Date period
Serverless API enabling live infrastructure deployment from portfolio website		
<ul style="list-style-type: none"><li>Built a serverless backend allowing visitors to deploy live EKS environments on demand, demonstrating real-world cloud architecture.</li><li>Achieved approximately \$2 per month in operational costs with zero idle charges using AWS Lambda and HTTP API v2.</li><li>Implemented idempotent deployment logic with DynamoDB conditional writes, preventing duplicate infrastructure.</li><li>Created secure log retrieval with automatic masking of AWS keys, tokens, passwords, and PII.</li><li>Configured EventBridge scheduled rules for automatic resource cleanup and cost control.</li><li>Technologies used include AWS Lambda, API Gateway, DynamoDB, Node.js, Terraform, and EventBridge.</li></ul>		
Homelab Infrastructure	Location	Date period
Three-node virtualization cluster serving family across multiple locations		
<ul style="list-style-type: none"><li>Designed and operated a three-node Proxmox cluster with high availability, achieving 99.9% uptime.</li><li>Reduced manual maintenance time by 80% through Ansible automation and GitLab CI/CD pipelines.</li><li>Implemented a security layer with Traefik reverse proxy, CrowdSec threat detection (zero security incidents), and Authentik SSO.</li><li>Deployed a comprehensive monitoring stack with Prometheus, Grafana, and Loki for metrics, dashboards, and log aggregation.</li><li>Managed a mixed storage environment with ZFS on SSDs for VMs and HDD array for media and backups.</li><li>Technologies used include Proxmox VE, Docker, Ansible, Traefik, CrowdSec, Authentik, Prometheus, Grafana, and WireGuard.</li></ul>		

### Skills

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  
12/2024 - 08/2025  
**Field Technician**

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  
07/2023 - 07/2024  
**Field Technician**

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  
08/2022 - 07/2023  
**Welder/fabricator**

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.