TONY VERIN

DevOps & Cloud Engineer

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ABOUT

DevOps and Cloud Engineer building and running production systems end to end: Kubernetes on AWS, GitOps delivery, and the observability that shows when something breaks. Former IDF sniper and drone operator, trained to stay precise and calm under pressure.

EXPERIENCE

Founding Engineer (Infrastructure & Platform), SwarmOps *(early-stage venture, 4 co-founders)* 2026 - Present

Drone fleet mission planning platform with real-time dynamic re-planning, built by a team of IDF veterans.

- Built and operated a nine-service system on AWS EKS as part of a three-person engineering team, across a twelve-repo polyrepo.
- Built and co-owned the delivery pipeline: Terraform-provisioned EKS, a shared parent Helm chart, Argo CD GitOps with auto-sync and self-heal, GitHub Actions CI/CD via OIDC with no static keys, and Argo Rollouts canary releases gated on Prometheus analysis.
- Automated daily cluster rebuilds by splitting Terraform into persistent and ephemeral layers, and fixed a hidden storage leak (52 unused EBS volumes, 226GB) caused by teardown removing the cluster before Kubernetes could reclaim its volumes.
- Resolved live EKS incidents from symptom to root cause: camera feed dropping every 2 minutes (ALB idle timeout) and telemetry OOMKills every 8-25 minutes (no backpressure for slow viewers).

Electro-Optical Systems Technician (IR & Photonics), Ophir Optics (MKS) Oct 2022 - Mar 2023

- Assembled, calibrated and tested IR and photonics systems for defense and civilian markets.

PROJECTS

DeployGuard | CLI Tool for Guarded Kubernetes Deployments

Python · Kubernetes · k3s · Terraform · Prometheus · Trivy · AWS

- Built and published dg (PyPI: dg-deploy, plus a Homebrew tap), a Python CLI that turns a Kubernetes deployment into a guided four-command workflow with a two-stage safety engine: blue/green health pre-check, then canary rollout (10%/50%/100%) with automatic rollback on Prometheus error spikes.
- Designed a policy-as-code guard layer (kubeconform, Trivy, 7 custom rules) and a cost gate that prices Terraform before provisioning and hard-stops over budget. The environment runs on k3s over AWS EC2 Spot for about $6/month.

Investment Advisor | AI-Powered Portfolio Tracker

Solo build · Python · FastAPI · AWS Bedrock · MongoDB Atlas · Terraform · GitHub Actions

- Integrated AWS Bedrock as an AI strategist that reasons over the user's live holdings and real-time web search, with Bedrock Guardrails keeping responses inside policy.
- Normalized four LLM backends (Bedrock, Groq, LM Studio, Ollama) behind a single chat endpoint and response shape, so the model can be swapped without touching the UI.
- Shipped solo on Terraform-managed AWS with a tag-gated GitHub Actions pipeline, CloudWatch logging and SES alerts; JWT auth with bcrypt, role-based access and token versioning.

CERTIFICATIONS & EDUCATION

AWS Certified Solutions Architect, Associate (SAA-C03) *Score: 992/1000* 2026

DevOps Engineer Program, IITC College *Graduated with Excellence* 2026

Magshimim *Software, networking and low-level systems program (C, Python, Arduino, protocol analysis)* 2019 - 2020

Israel Goldstein Youth Village *Bagrut Diploma, emphasis on Physics and Biology* 2019 - 2022

SKILLS

Cloud & Infrastructure: AWS (EC2, EKS, ECS, ECR, ALB, VPC, Route 53, CloudFront, RDS, IAM, EventBridge, Cognito, Bedrock, CloudWatch, SES), Terraform
Containers & Orchestration: Docker, Kubernetes (EKS, k3s, Minikube), Helm
CI/CD & GitOps: GitHub Actions (OIDC), Argo CD (auto-sync, self-heal), Argo Rollouts canary, blue/green deployments, automated rollback
Observability: Prometheus, Grafana, Loki; alert rules, dashboards, metrics instrumentation, structured JSON logging
Security & Policy: Trivy, kubeconform, policy-as-code guard rules, IAM least privilege, OIDC over static keys, secret hygiene
Scripting & Development: Python (FastAPI, Typer, pytest), Bash, Linux troubleshooting; basics of C and JavaScript
Networking: TCP/IP, DNS, DHCP, routing, VLANs, NGINX reverse proxy and load balancing, Wireshark; CCNA level
AI & Data: AWS Bedrock (Converse API, Guardrails); MongoDB, PostgreSQL, RabbitMQ; Claude Code, Copilot; local models via Ollama
Languages: Hebrew, English, Russian

MILITARY SERVICE

Sniper & Spotter (Combat), Drone Operator, Israel Defense Forces Mar 2023 - Dec 2025

- Executed high-precision operations under extreme pressure, also serving as a drone operator.
- Coordinated with unfamiliar joint units to synchronize real-time ballistics data, optics and drone feeds, making data-driven decisions under zero-fail constraints.