Debasish Mohanty

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Professional Summary

Cyber Security Engineer with **2 years of hands-on experience** in cloud-native security, DevSecOps, and Linux Kernel systems. Contributed production code to **Falco v0.24.0** — a CNCF security tool used by **3,000+ companies worldwide**. Built and deployed a kernel-level **eBPF runtime security agent** processing **8,000+ events/sec** and an automated DevSecOps enforcement platform with **70+ security rules**. Proven experience across AWS, Kubernetes, Go, and eBPF-based threat detection in real production environments.

Open Source Contributions

falcosecurity/falco | ***CNCF Security Project · C, Linux Systems***

- **PR #2930** — Fixed **memory calculation bug** (integer overflow in `libsinsp`) corrupting monitoring data for 4GB+ processes. Validated with Heaptrack. **Merged into Falco v0.24.0** — fix now active across all production deployments worldwide.
- **PR #2926** — Fixed **resource leak** (fd leak in `libscap`) that caused Falco agents to exhaust OS resources and crash over time. Corrected cleanup across all error paths. **Merged into Falco v0.24.0.**

Projects

KubeRTSec — Kubernetes Runtime Security Agent | ***Go, C, eBPF*** Code

- Built a **kernel-level security agent** monitoring all containers for attacks — zero changes to application code. Processes **8,000+ events/sec at <2% CPU** via eBPF ring-buffer pipeline.
- Detects **reverse shells, crypto miners, container escapes, privilege escalation** in real time (MITRE ATT&CK T1059, T1611); auto-responds with SIGKILL. Hot-reloadable YAML rules, alerts via REST + WebSocket.

ZeroTrustOps — Automated Security Gate for CI/CD | ***Go, FastAPI, Kyverno, PostgreSQL*** Code

- Scans every Git push for security issues via **SecTL** — a custom Go policy engine with **70+ rules** for Kubernetes, Terraform, and Helm — plus **Gitleaks** for secrets. **Blocks deployment** on RBAC wildcards, privilege escalation, exposed secrets.
- Extended with **Kyverno admission control** (disallow-privileged, require-resource-limits), creating a full **commit-to-deploy security chain.**

K3s + Istio Canary Deployment Engine | ***Kubernetes, Istio, Prometheus, Kiali*** Code

- Safe deployment system shifting traffic gradually (80/20) with **100% routing accuracy** via Kiali; Prometheus + Grafana dashboards enable **instant rollback** on metric regression.

Experience

TechEazy Consulting Jun 2025 – Dec 2025
AWS Cloud DevOps Engineer Intern *Remote, India*

- Provisioned isolated dev/staging/prod environments on AWS with **Terraform Workspaces**; built **GitHub Actions CI/CD pipelines** with health-check validation, S3 audit logging, and auto-shutdown — **cut AWS costs by 30%.**

Elevate Labs May 2025 – Jun 2025
Cloud Infrastructure & DevOps Engineer Intern (Contract) *Remote, India*

- Deployed progressive Kubernetes rollouts via **Istio + ArgoCD GitOps**; hardened workloads with **distroless builds**; Prometheus + Ansible self-healing **cut incident response time by 50%.**

Markopen Jan 2025 – Present
Backend & Infrastructure Engineer (Part-time, Early-stage Startup) *Bhubaneswar, India*

- Built high-concurrency **Go backend** with Redis caching — reduced p95 API latency **120ms** → **40ms** (3× faster). Added **OpenTelemetry** distributed tracing, cutting Mean Time to Identify bottlenecks by **40%.**

Technical Skills

Security & Enforcement: Falco, Kyverno, eBPF Threat Detection, Runtime Security, Policy as Code, IaC Scanning, Gitleaks, MITRE ATT&CK

Languages & Systems: Go, C, eBPF, Linux Internals, Syscalls, Namespaces, Cgroups, TCP/IP

Cloud-Native & Infra: Kubernetes, EKS, K3s, Helm, Istio, ArgoCD, Docker, Terraform, AWS, GitHub Actions, GitOps

Observability: OpenTelemetry, Prometheus, Grafana, Jaeger, Loki, eBPF Tracing

Education

SUIIT, Sambalpur University Odisha, India
B.Tech in Cyber Security *2022 – 2026*