

MAYURESH SINGH

DevOps Engineer

mayuresh2k4@gmail.com · +91-8618839652 · mayuu.me · github.com/mayu-z · linkedin.com/in/mayu-esh

TECHNICAL SKILLS

Languages: Go, Python, Bash, JavaScript, TypeScript

DevOps & Cloud: Kubernetes, Docker, Terraform, Ansible, ArgoCD, GitHub Actions, AWS (EC2, IAM, VPC), CI/CD

Observability: Prometheus, Grafana, Alertmanager, custom metrics API

Infrastructure: Envoy, Kafka, gRPC, Helm, Linux, tc netem, PostgreSQL, Redis

Developer Tools: Git, Neovim, Typst

EXPERIENCE

DevOps Engineer Intern | *Kubernetes, Docker, AWS, CI/CD, Terraform*

2025 — 2026

Aexiz Solutions

- Provisioned and hardened AWS EC2 instances running 4+ production Node.js services behind an ALB, with IAM role-based access control and automated AMI snapshots — reducing manual setup time by 60%
- Containerized 3+ services with Docker and Docker Compose across dev and production, standardizing runtime configuration and eliminating environment-specific deployment failures
- Built GitHub Actions CI/CD pipelines with automated test gates and Docker image builds, cutting deployment cycle time from manual multi-step releases to under 5 minutes
- Managed Git workflows across a multi-developer team — trunk-based branching, PR reviews, and release tagging across 2+ active production repositories

TECHNICAL PROJECTS

Chaos-Proof Microservice Mesh | *Go, Kubernetes, Terraform, Envoy, Kafka, Prometheus, Grafana, ArgoCD*

- Built a custom Go controller (controller-runtime) that watches Prometheus for SLO burn rate — on breach, drains regional traffic via Envoy xDS weight patching, freezes HPA and ArgoCD sync to prevent race conditions, then ramps traffic back in steps (10% → 30% → 60% → 100%) with health checks at each stage
- Separated autoscaling and routing signals: HPA wired to RPS and Kafka queue depth via custom metrics API; p99 burn rate reserved for regional drain decisions; two-layer Envoy handles pod-level circuit breaking before the controller escalates
- Validated the recovery loop with a chaos monkey CronJob (pod kills + tc netem latency injection); provisioned with Terraform, configured via Ansible, deployed through ArgoCD GitOps; Grafana dashboards track p99, traffic weights, error budget, and MTTR per incident

YC Co-Founder — RAG Startup Advisor | *Python, ChromaDB, FastAPI, Docker*

- Built a RAG pipeline over 5 YC knowledge sources with hybrid retrieval (semantic + keyword), re-ranking, and diversity filtering — achieving 0.87 RAG score across a 100-question benchmark
- Containerized the full stack with Docker; exposed retrieval and evaluation endpoints via FastAPI

HACKATHONS

Zeus — Autonomous CI/CD Healer | *FastAPI, React, Redis, PostgreSQL*

RIFT 2026 — Finalist

- Built an autonomous agent that monitors CI/CD pipelines, detects failing tests, generates targeted LLM-based fixes, and auto-commits patches — eliminating manual intervention for common failure patterns
- Designed a Redis-backed job queue to process pipeline events asynchronously, with PostgreSQL storing fix history and patch success rates across runs

Aletheia — Multi-Agent Fact-Checker | *FastAPI, LangGraph, Docker, Aptos*

Deep Hackathon

- Architected a multi-agent fact-checking system with 3+ specialized agents retrieving and cross-verifying sources in parallel, reducing single-source hallucination risk

EDUCATION

CERTIFICATIONS

AWS Certified Solutions Architect — Associate	<i>target: Q4 2026</i>	In Progress
MCP Beginner & Advanced	— Anthropic <i>Building and deploying MCP servers with AI systems</i>	2025
Full-Stack Web Development Bootcamp	— Udemy, Dr. Angela Yu	Jan 2026