

VISHAL GUNJAL

Pune, India (Open to Relocation & Remote)

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DevOps Engineer | Site Reliability Engineer (SRE) | Cloud & Platform Engineering | AI-Driven Infrastructure & FinOps

CORE TECHNICAL SKILLS & CS COMPETENCIES

Computer Science & Systems Fundamentals: Data Structures & Algorithms, OOPs, System Design (LLD), Operating Systems (Linux Kernel Internals, cgroups v2, namespaces, process lifecycles), DBMS (Indexing, Transactions, ACID), Computer Networks, Concurrency & Multithreading

Languages: Go (Golang), Python, Core Java (Collections, Concurrency, Multithreading, OOP), Bash/Shell Scripting, SQL

Cloud Platforms: AWS (EKS, EC2, VPC, IAM, S3, RDS, Route 53, CloudWatch, Bedrock), Google Cloud Platform (Cloud Run, Cloud Pub/Sub, Vertex AI), Microsoft Azure

Infrastructure as Code & Automation: Terraform (Modular IaC Architecture, S3 Remote State Backend, DynamoDB Distributed State Locking), Ansible

Containers & Orchestration: Kubernetes, Docker, Helm, Horizontal Pod Autoscaling (HPA), NetworkPolicy (Default-Deny Ingress/Egress), OPA Gatekeeper, Ingress Controllers, Service Discovery

CI/CD & GitOps: ArgoCD, Jenkins (Parallel Pipeline Architectures), GitHub Actions, GitLab CI, GitOps Reconcile Loops, Automated Rollbacks, Blue-Green Deployments, Canary Releases

Observability & Reliability Engineering: Prometheus, Grafana, Jaeger Distributed Tracing, ELK Stack (Elasticsearch, Logstash, Kibana), Alertmanager, SLIs/SLOs, Error Budgets, DORA Metrics, Root Cause Analysis (RCA), Incident Management

Security & Identity Governance: AWS IRSA, Workload Identity Federation, Trivy Container Scanning, SonarQube Code Quality, OWASP Dependency Check, Shift-Left Security, RBAC

AI Platform Engineering & Cloud FinOps: Model Context Protocol (MCP), LLM Inference Telemetry, FinOps Foundation FOCUS Framework, Cloud Cost Optimization, Resource Right-Sizing

EXPERIENCE & ENGINEERING PROJECT

Platform & SRE Engineer | Project / Open-Source / Independent / Cloud-Native Ecosystem

Dec 2024 – Present

ZeroDrift: AI-Assisted SRE & FinOps Control Plane - [Google Cloud Hackathon](#) | [GitHub Repository](#)

Tech: Python, FastAPI, Terraform, Google Cloud Run, Cloud Pub/Sub, Vertex AI, GitLab MCP, Server-Sent Events (SSE)

- **Event-Driven Infrastructure Control Plane:** Designed & implemented an asynchronous, **event-driven control plane** on GCP where **Cloud Pub/Sub** triggers a **Cloud Run FastAPI microservice** to detect misconfigured infrastructure drift & synthesize accurate **Terraform remediation plans** in **under 5 seconds**.
- **Production Safety via AST Blast-Radius Parsing:** Engineered a custom **Python AST parser** that statically analyzes **Terraform HCL** before execution, generating **resource dependency graphs** to classify proposed changes into **Low, Medium, and High blast-radius tiers**.
- Built a real-time **SSE approval pipeline** streaming **infrastructure diffs** to a web dashboard, enforcing **human verification gates** before triggering **GitLab CI deployment pipelines**.
- Eliminated all **hardcoded cloud API keys** by implementing **Workload Identity Federation** using **OIDC token exchange** between **GCP and GitLab**.
- Built an automated **resource scanner** to identify **over-provisioned infrastructure** (e.g., idle RDS instances) and auto-generate declarative **right-sizing pull requests** aligned with **FinOps cost standards**.

Cloud-Native Retail Platform on AWS EKS | [GitHub Repository](#)

Tech: Go, Core Java, AWS EKS, Terraform, ArgoCD, RabbitMQ, Redis, PostgreSQL, Prometheus, Grafana, Jaeger, OPA Gatekeeper

- Built distributed backend services in **Go** and **Core Java** backed by **PostgreSQL**, including an edge **Go API Gateway** with **token-bucket rate limiting** to prevent upstream server exhaustion under high-throughput load.
- **Modular Cloud Provisioning with Terraform:** Designed & provisioned **multi-AZ AWS infrastructure** (VPC, public/private subnets, NAT Gateways, EKS cluster, IAM roles) using reusable **Terraform modules** with **S3 remote backend & DynamoDB distributed state locking**, reducing environment provisioning time from **45 to 15 minutes**.

- Decoupled order placement from downstream inventory processing using **RabbitMQ message queues**; validated failure isolation under a controlled **10,000 RPS k6 load test**, ensuring **100% of checkout write transactions were preserved** during an unhandled inventory service crash.
- Conducted and documented an **incident post-mortem** on cascading **Out-Of-Memory (OOMKill) container crashes**; used **Go pprof heap-dump profiling** to trace memory leaks to **unpaged bulk queries**, resolving the root cause through **API pagination** and **circuit-breaker patterns**.
- Hardened **Kubernetes cluster security** by enforcing **default-deny NetworkPolicies** and **AWS IRSA** for least-privilege pod-level cloud access.
- **Full-Stack Distributed Observability**: Deployed **Prometheus, Grafana, and Jaeger distributed tracing** across all **8 microservices**, achieving **Mean Time to Acknowledge (MTTA) under 10 minutes** and full request-lifecycle visibility.

Wanderlust: DevSecOps & GitOps Delivery Platform on AWS EKS | [GitHub Repository](#)

Tech: Jenkins, GitHub Actions, ArgoCD, SonarQube, Trivy, OWASP, ELK Stack, AWS EKS, Prometheus, Grafana, Docker, Terraform

- Parallelized **Jenkins** build, test, scan stages - pipeline execution time reduced **35%** from sequential baseline; applied multi-stage Dockerfiles with layer caching - container image build time reduced **40%**, shortening CI feedback cycles across every commit.
- Enforced three mandatory **pre-staging gates**: SonarQube ($\geq 80\%$ coverage + zero critical smells), Trivy container scan & OWASP dependency check -any critical finding **auto-blocks pipeline**; nothing reaches staging with known vulnerability.
- Deployed **ArgoCD** with 3-minute Git reconciliation - unauthorized cluster changes automatically reverted to declared Git state; centralized all pod logs in **ELK Stack** for a single searchable operational surface; built **Grafana** dashboards tracking DORA metrics and SLO compliance.

Captain Cool: Multi-Agent AI Pipeline | [GitHub Repository](#)

Tech: Google Gemini API, Node.js, Express, Server-Sent Events, React, FinOps Telemetry

- **Full-Stack Agent Interface**: Developed an interactive, responsive **React.js frontend** communicating via **SSE** to visualize **real-time agent debates, decision DAGs, and live cost metrics**.
- **Adversarial Multi-Agent DAG Architecture**: Designed a **5-agent DAG orchestration pipeline** (Analyst, Strategist, Devil's Advocate, Revised Strategist, Commentator) with **structural prompt constraints** forcing disagreement in the Red Team agent, eliminating **LLM consensus collapse**.
- **Resilient Inference Engineering**: Implemented **3-second AbortController hard timeouts** on external API tool calls and **structured JSON parsing fallbacks** to prevent pipeline crashes during **LLM latency degradation**.
- Built an **execution-tracking wrapper** measuring **prompt tokens, completion tokens, latency, and real-time dollar cost** per inference step, proving the full **5-agent pipeline for an entire sports season operates at under \$10**.

CERTIFICATIONS

Completed & In Progress:

- Introduction to **DevOps and Site Reliability Engineering** (LFS162) & **Kubernetes** (LFS158) — *The Linux Foundation*
- Introduction to **FinOps & FOCUS** — *FinOps Foundation*
- Become a **Solutions Architect** (BeSA) — *Agentic AI — AWS Mentored Cohort, Feb - Mar 2026*
- Become a **Solutions Architect** (BeSA) — *Agentic AI - POC to Production — AWS Mentored Cohort, Aug - Sept 2026*
- Anthropic Academy (Claude) — **Model Context Protocol** (Advanced), **AI Agents & Skills**, Claude with **Amazon Bedrock** & Claude with Google Cloud **Vertex AI**
- Certified **Kubernetes Administrator (CKA)** & **AWS Certified Solutions Architect – Associate (SAA-C03)** - *Expected Q3 2026*

TECHNICAL WRITING & COMMUNITY

Technical Author | Medium – [@vishalgunjal](#)

Community Involvement – [Portfolio](#)

- Active member of **Google Developer Group**, **CNCF & Linux Foundation Community**, **AWS User Group India**, **FinOps Foundation**, **Atlassian Community**, and **CNCF Platform Engineering Technical Advisory Group** - contributing to cloud-native discussions, hands-on labs, and knowledge-sharing initiatives.

EDUCATION

MES's Institute of Management and Career Courses (IMCC)

MCA – Master's in Computer Application

Strong academic foundation in distributed systems, operating systems, and concurrency.

Pune, Maharashtra

2022 – 2024