

VISHAL GUNJAL

Pune, Maharashtra, India (Open to Relocation & Remote)

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Site Reliability & Platform Engineer. GitOps, Terraform Automation, and AI-Driven Infrastructure

CORE TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EKS, EC2, VPC, IAM, RDS, S3, Route53, CloudWatch, Bedrock), Azure Fundamentals, GCP Fundamentals, Cloud Cost Optimization (FinOps), Multi-Region Architecture

Containers & Orchestration: Kubernetes (RBAC, HPA, Ingress, StatefulSets, NetworkPolicies), Docker, Helm, ArgoCD (GitOps)

Infrastructure as Code (IaC) & Automation: Terraform (Modular, Remote State, Workspaces), Ansible, GitOps, Multi - Environment Provisioning, Configuration Management, Infrastructure Drift Detection

CI/CD & DevSecOps: Jenkins (Pipeline Automation, Shared Libraries), GitHub Actions, Blue-Green Deployments, Rolling Deployments, Canary Releases, SonarQube, Trivy (Container Scanning), OPA Gatekeeper, IRSA-based IAM, Pod Security

Observability, Monitoring & Reliability: Prometheus, Grafana, ELK Stack, Jaeger (Distributed Tracing), SLI/SLO Design, Incident Management, Root Cause Analysis (RCA), MTTR Reduction, High Availability, Fault Tolerance, Alerting

Programming & Scripting: Core Java (Concurrency, Multithreading), Go, Python, Bash/Shell Scripting, JavaScript, Automation

Databases & Messaging: MySQL, Redis (Distributed Caching, Cache Invalidation), RabbitMQ (Event - Driven Architecture, Message Queuing), Database High Availability

CS & Systems Foundations: Distributed Systems, Operating Systems (Linux Internals, Process Management), Networking (TCP/IP, DNS, HTTP, Load Balancing), System Design, Low-Level Design (LLD), Object-Oriented Design (OOD)

AI & Intelligent Automation: Amazon Bedrock, Agentic Workflows, Model Context Protocol (MCP), GenAI Infrastructure, API Integration, Operational Toil Reduction via AI Automation

PROFESSIONAL EXPERIENCE

Site Reliability & DevOps Engineer | *Open-Source Contributions & Hackathons* Jan 2025 – Present

- Built and managed **cloud-native infrastructure** on AWS for multiple end-to-end enterprise projects. Hands-on engineering spans the entire stack, from provisioning secure Kubernetes clusters and writing Infrastructure as Code, to **automating GitOps pipelines** and setting up complete observability.

ENGINEERING EXPERIENCE

ZeroDrift: Autonomous SRE & FinOps Control Plane - [Google Cloud Hackathon](#) | [GitHub Repository](#) Apr 2026 – Present

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

- The Problem:** Infrastructure drift takes hours to patch manually, and traditional AI agents are too dangerous to automatically write and deploy Terraform directly into production environments.
- The Solution:** Built an autonomous event-driven control plane using **Google Vertex AI** and **GitLab** that instantly detects misconfigured cloud resources and orchestrates the exact declarative **Terraform** code required for remediation.
- Production Safety (Blast Radius):** Engineered a Python-based **Abstract Syntax Tree (AST)** parser to statically analyze Terraform modules prior to execution, accurately calculating the deployment blast radius to guarantee zero automated breakages.
- Human-in-the-Loop GitOps:** Designed an asynchronous pipeline leveraging **Server-Sent Events (SSE)** that streams proposed infrastructure changes in real-time, requiring explicit human approval before triggering CI/CD merges.
- FinOps Automation:** Developed a continuous cost-optimization engine that actively scans for over-provisioned cloud resources (e.g., **AWS RDS databases**) and automatically generates the IaC code required to right-size them.
- The Metrics:** Cut drift resolution time from hours to **seconds**, completely eliminated hardcoded credentials via **Workload Identity Federation**, and shifted cloud cost optimization from manual quarterly audits to a continuous, autonomous daily process.

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

Jun 2025 – Mar 2026

Tech: AWS EKS, Kubernetes, Terraform, ArgoCD, RabbitMQ, Redis, Prometheus, Grafana, Jaeger, Go

- Built an e-commerce platform with 8 independent **microservices** (Go, Java, Node.js). Connected them with **RabbitMQ** so if one service crashes, the rest of the store stays online.
- Set up **Redis** caching to store frequently accessed product data, taking the heavy read traffic off the **PostgreSQL** databases and speeding up load times.
- Locked down cluster security by writing Kubernetes **Network Policies** (blocking all traffic by default) and using **AWS IRSA** so pods can access cloud resources without hardcoded passwords.
- Wrote an API Gateway in Go and set up Kubernetes **Horizontal Pod Autoscaling (HPA)** to automatically add more containers when user traffic spikes.
- Cut AWS setup time from **45 minutes to 15 minutes** by writing reusable **Terraform modules** for VPCs and EKS clusters, saving the state securely in **S3**.
- Reduced the time it takes to spot a broken service to under 10 minutes by setting up **Prometheus, Grafana, and Jaeger** to trace requests as they jump between all 8 microservices.

Wanderlust: Enterprise DevOps & GitOps Platform on AWS EKS | GitHub Repository

Jan 2025 – May 2025

Tech: AWS EKS, Jenkins, Terraform, SonarQube, Trivy, ArgoCD, ELK Stack, Prometheus, Docker

- Built a deployment pipeline using **Jenkins**, cutting execution time by **35%** by running jobs at the same time (parallel) and dropping Docker build times by **40%** using layer caching.
- Set up automated **Quality Gates** that instantly block any code from deploying if it has less than **80% test coverage** or contains critical bugs.
- Integrated **SonarQube, OWASP, and Trivy** into the build process to scan code and containers before they reach staging, dropping production security issues by **95%**.
- Automated all deployments with **ArgoCD**. It checks the Git repository every **3 minutes**, and if anyone manually changes a server, ArgoCD instantly changes it back to match Git.
- Built **Grafana** dashboards to track engineering speed (**DORA metrics**) and system reliability (**SLOs**), giving the team hard numbers on exactly how the platform is performing.
- Cut the time spent finding the root cause of issues by sending all server logs to a central **ELK Stack** instead of making engineers manually search through individual containers.

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*
- 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

- Publish technical deep-dives on Kubernetes security, GitOps workflows, Terraform automation, distributed systems reliability, and SLI/SLO implementations.

Community Engagement

- 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.
- Attend meetups and technical workshops on **Kubernetes, Platform Engineering, eBPF, and cloud-native observability** - staying current with emerging SRE practices and contributing back to the community.

EDUCATION

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

MCA – Master's in Computer Application

Pune, Maharashtra

2022 – 2024

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