

Akshay Mhaskar

DevOps Engineer | Site Reliability Engineer | CNCF Enthusiast

Building cloud-native infrastructure with open-source tools and AI-driven automation

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CNCF-native DevOps Engineer with deep expertise in Kubernetes, GitOps, and observability. Proven track record building PCI-DSS compliant fintech platforms and GPU-accelerated AI inference clusters. Hands-on from bare-metal hardware to production cloud. Currently focused on LLM infrastructure, autonomous AI agents, and edge computing.

TECHNICAL SKILLS

Cloud & IaC: AWS, GCP, Azure, Terraform, OpenTofu, Terragrunt, Crossplane

Networking: Istio, Linkerd, Traefik, Emissary Ingress, Cilium CN

Security: PCI-DSS, Trivy, Terrascan, Fortinet, WatchGuard

AI & Scripting: Python, Bash, Open-Source LLMs, TTS/STT, vLLM

Containers: Kubernetes, Docker, Helm, ArgoCD, containerd

Observability: Prometheus, Grafana, OpenTelemetry, VictoriaMetrics, FluentBit

Reliability: k6, Locust, Chaos Engineering, Playwright

Hardware: GPU Architecture, NVIDIA CUDA, AMD ROCm, Bare Metal

WORK EXPERIENCE

DevOps Engineer (Sole Contributor)

Jul 2025 - Present

[Billeasy](#) | Hybrid

- Scaled infrastructure for 15+ lakh daily riders across 5 metros (Mumbai, Hyderabad, Pune, Nagpur, Noida) + MSRTC, Neeta, Purple buses
- Managed AFC partners, payment gateways, CPaaS integrations (Gupshup, Route Mobile) for WhatsApp/SMS messaging
- Achieved 80% egress cost reduction via Traefik Gateway behind CloudFront; implemented IaC with OpenTofu
- Led GitOps with ArgoCD; built observability stack (VictoriaMetrics, Prometheus, Grafana, OpenTelemetry); developed AI-powered Log Agent
- Built on-prem bare-metal K8s dev cluster with GPU support; exposed via FRP reverse proxy and staging ALB

DevOps Engineer

Apr 2023 - Jul 2025

[Mavonic Technology Private Limited](#) | Hybrid

- Architected scalable cloud infrastructure for Fintech and AI platforms; streamlined CI/CD with PCI-DSS compliance checks
- Built PCI-DSS compliant infra for B2B cross-border payment platform (140+ currencies) — network segmentation, encryption, Trivy scanning
- Led AWS-to-GCP migration for NBFC co-lending platform; mentored junior engineers and drove DevOps adoption
- Engineered IaC with Terraform/Terragrunt; orchestrated K8s with Crossplane; implemented Istio & Emissary Ingress
- Pioneered LLM-powered QA automation with Playwright and MCP, achieving 70-90% cost reduction in browser testing
- Conducted chaos engineering and load testing with k6/Locust for resilience validation

System Administrator

Apr 2021 - Feb 2023

[Cupshup](#)

- Managed cloud infrastructure, CI/CD pipelines, and Linux servers; migrated workloads to Google Cloud with IAM best practices

Infrastructure Consultant & Founder

Nov 2018 - Apr 2021

[Square Root Consultancy](#)

- Designed and deployed enterprise network infra for 10+ SMBs — Fortinet/WatchGuard firewalls, VLAN segmentation, site-to-site VPN, zero-trust policies

FEATURED PROJECTS

GPU-Enabled Bare Metal K8s Cluster — Single-node K8s v1.35 on AMD Ryzen 9 5900X with 3x NVIDIA GPUs (RTX 5090 + 3080 + 2070 Super, 50GB VRAM). Runs SFT/GRPO training, LoRA fine-tuning, Qwen3.5 inference via llama.cpp. Published fine-tuned models on Hugging Face (3,300+ downloads).

AI-Powered Multi-Channel Voice Agent — Self-hosted LLM/TTS on on-prem K8s with SIP Trunking and WhatsApp Calling API for automated interviews, order processing, and support triage.

EDUCATION

B.E. - Electrical, Electronics & Communications Engineering, Mumbai University

Diploma - Electronics & Telecommunications, MSBTE

CERTIFICATIONS

Google Kubernetes Engine [\[View\]](#) • Terraform on Google Cloud [\[View\]](#) • Elastic GCP Infrastructure [\[View\]](#) • Associate Cloud Engineer Prep [\[View\]](#) • ISO 20000 [\[View\]](#)