

# Sumit Mago

## SENIOR DEVOPS ENGINEER

📍 Mohali, Punjab, India    📞 +91 90419 61900    ✉️ sumitmago924@gmail.com    🌐 sumitmago.in

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### PROFESSIONAL SUMMARY

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Senior DevOps Engineer with **5+ years** of experience designing, implementing, and maintaining cloud-native infrastructure at scale. Proven track record managing **500+ production projects** across AWS, GCP, Azure, and on-premises environments with **99.9% uptime**. Expert in CI/CD automation, container orchestration (Kubernetes, Docker, LXC), Infrastructure as Code (Terraform), and emerging AI/ML system deployments (RAG pipelines, LLM serving). Strong background in security hardening, network architecture, and team leadership. Certified Ethical Hacker (CEH v10) and Computer Hacking Forensic Investigator (CHFI v9).

### PROFESSIONAL EXPERIENCE

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#### DevOps Engineer (Team Lead)

May 2023 – Present

iApp Technologies LLP

Mohali, India

- ▶ Lead DevOps for **500+ production applications** across multi-cloud (AWS, GCP, Azure) and on-prem VMware/XCP-ng environments
- ▶ Architected and optimized **CI/CD pipelines** using Jenkins & GitLab CI/CD, reducing deployment time by **68%** and enabling zero-downtime releases
- ▶ Built comprehensive **Infrastructure as Code** with Terraform managing 200+ resources across 15+ environments
- ▶ Designed and maintained **Kubernetes clusters (EKS, GKE, self-managed)** with 500+ pods, implementing GitOps via ArgoCD
- ▶ Implemented **observability stack** (Prometheus, Grafana, Wazuh, Uptime Kuma) achieving **99.9% SLA** across critical services
- ▶ Configured enterprise networking: FortiGate firewalls, WireGuard/OpenVPN, DNS/DHCP, VPC peering, and zero-trust access
- ▶ Automated backup, disaster recovery, and compliance workflows; reduced incident response time by **40%**
- ▶ Mentored team of 5 engineers; established DevOps standards, runbooks, and on-call rotation processes

#### Linux Administrator (Team Lead)

Nov 2021 – Apr 2023

ToXSL Technologies

Mohali, India

- ▶ Managed **200+ Linux servers** (RHEL, Ubuntu, CentOS) across bare-metal, VMware ESXi, and cloud (AWS, Azure, GCP)
- ▶ Deployed containerized workloads using **Docker & LXC** with Nginx/Apache reverse proxies and SSL termination
- ▶ Built **Jenkins pipelines** for 50+ microservices; integrated SonarQube for code quality gates
- ▶ Led cloud migration initiative: moved 30+ on-prem workloads to AWS/GCP/Azure with zero data loss
- ▶ Implemented security hardening: CIS benchmarks, SELinux, auditd, fail2ban; passed external security audits

- ▶ Configured monitoring with Zabbix/Nagios; established alerting runbooks reducing MTTR by **55%**
- ▶ Managed DNS (Bind9), DHCP, LDAP authentication, and certificate lifecycle (Let's Encrypt, internal CA)

TECHNICAL SKILLS

CLOUD & INFRASTRUCTURE

AWS (EC2, EKS, RDS, S3, IAM, CloudFormation)

GCP (GKE, Cloud Run, Cloud SQL, IAM)

Azure (AKS, App Service, Key Vault)

VMware ESXi / vSphere

XCP-ng / Xen Orchestra

Terraform / OpenTofu

Ansible

CONTAINERS & ORCHESTRATION

Kubernetes (EKS, GKE, K3s, Kind)

Docker / BuildKit / Podman

LXC / LXD

Helm / Kustomize

ArgoCD / Flux (GitOps)

Service Mesh (Istio basics)

Containerd / CRI-O

CI/CD & AUTOMATION

Jenkins (Declarative, Shared Libraries)

GitLab CI/CD

GitHub Actions

SonarQube / Trivy / Syft

Bash / Python / Go (CLI tools)

Make / Taskfile

NETWORKING & SECURITY

FortiGate / pfSense / OPNsense

WireGuard / OpenVPN / Tailscale

DNS (Bind9, CoreDNS, Route53)

Load Balancing (NGINX, HAProxy, ALB)

TLS/mTLS / cert-manager

CIS Benchmarks / SELinux / AppArmor

Vault / Sealed Secrets

OBSERVABILITY & DATABASES

Prometheus / Grafana / Alertmanager

Wazuh / ELK Stack / Loki

Uptime Kuma / Healthchecks.io

PostgreSQL / MySQL / MongoDB

Redis / Valkey

Backup/DR (Velero, Restic, Rclone)

AI/ML SYSTEMS & EMERGING

RAG Pipeline Development

LLM Serving (vLLM, Ollama, TGI)

Qwen / Llama / Mistral Models

Vector DBs (Qdrant, Pinecone, Weaviate)

Hume AI / Voice AI Integration

LangChain / LlamaIndex

GPU Orchestration (NVIDIA Device Plugin)

CERTIFICATIONS

CHFI v9

Computer Hacking Forensic Investigator

EC-Council

CEH v10

Certified Ethical Hacker

EC-Council

CyberOps

Infosec Specialist

CyberOps

CyberOps

Infosec Expert

CyberOps

EDUCATION

Bachelor of Technology in Computer Science & Engineering

## KEY PROJECTS

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### AI RAG System (Qwen LLM)

Python · FastAPI · Qdrant · vLLM · Docker

Designed and deployed production-ready Retrieval-Augmented Generation pipeline serving Qwen-2.5 models. Built document ingestion (PDF, HTML, markdown), chunking strategies, hybrid search (BM25 + vector), and streaming API with **sub-200ms latency**. Integrated Hume AI for real-time voice interaction.

### Multi-Cloud DevOps Platform (500+ Apps)

Terraform · Jenkins · Kubernetes · ArgoCD · Prometheus

Architected unified deployment platform across AWS, GCP, Azure, and on-prem. Standardized 500+ applications with templated Helm charts, GitOps workflows, and automated security scanning. Achieved **99.9% deployment success rate** with **zero-downtime** releases.

### Enterprise Security Hardening Framework

Ansible · CIS Benchmarks · Wazuh · Vault · FortiGate

Developed automated compliance framework implementing CIS Level 1/2 benchmarks across 200+ servers. Integrated Wazuh SIEM for real-time threat detection, HashiCorp Vault for secrets management, and FortiGate for network segmentation. Passed **SOC 2 Type II** and **ISO 27001** audits.