

# Bhavesh Kumar Parmar

## DevOps Engineer | Cloud & AIOps

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### Summary

Cloud & DevOps Engineer building infrastructure for **AI/ML workloads** and traditional cloud systems on **AWS, Azure, and GCP**. Hands-on experience deploying **LLM & RAG architectures**, orchestrating **Kubernetes clusters (EKS, GKE)**, and implementing **CI/CD pipelines with Terraform**. Proficient in **Python and Java** for automation and tooling. Focused on **FinOps** (achieved 20% cost reduction) and **observability** (Prometheus, Grafana, Datadog) while maintaining **99.9% uptime** for production environments.

### Experience

#### Cloud Engineer

*Shellkode*

*Bangalore, India*

*Feb 2025 – present*

- Manage multi-client cloud infrastructure across **AWS, Azure, and GCP**, ensuring **99.9% uptime** and rapid incident response for managed service clients.
- Provision and manage **5+ Kubernetes clusters** (EKS, GKE) with Helm charts, handling **50+ containerized microservices** in production environments.
- Accelerate deployment frequency by **40%** by implementing **GitOps workflows** with ArgoCD, Jenkins, GitHub Actions, and **GCP Cloud Build**.
- Implement **Infrastructure as Code (IaC)** using Terraform, managing **200+ cloud resources** and standardizing provisioning across multi-tenant environments.
- Reduce operational costs by **20%** through cloud cost optimization (FinOps), rightsizing instances, and implementing auto-scaling policies.
- Deploy comprehensive **monitoring & observability stacks** using Prometheus, Grafana, and Datadog, reducing Mean Time to Detect (MTTD) by **50%**.
- Deploy and maintain **LLM & RAG infrastructure** on high-performance compute instances, supporting **1,000+ daily API requests** for GenAI workloads.
- Reduce **Mean Time to Resolve (MTTR)** by **30%** through authoring SOPs and knowledge sharing within the MSP team.

#### Cloud Engineer

*Independent Projects*

*Remote*

*June 2024 – Jan 2025*

- Provisioned and managed **AWS infrastructure** using Terraform, deploying **20+ resources** including EC2, S3, Lambda, and VPC for cloud projects.
- Deployed **3+ Kubernetes clusters** (Kind, EKS) and containerized **10+ applications** using Docker and Helm charts.
- Developed automation tools using **Python, Java, and Bash** to streamline cloud resource management across **5+ AWS accounts**.

### Projects

#### Autonomous Self-Healing CI/CD Platform

AIOps, LangChain, Kubernetes, Terraform, GitOps, Next.js, Docker, GitHub Actions

- Developed a Python-based intelligent agent using **LangChain and Google Gemini Pro** to analyze build logs, automating triage for **80%+ of common CI/CD errors**.
- Implemented multi-cloud CI/CD integration across **3 platforms** (GitHub Actions, Jenkins, AWS CodePipeline) for log retrieval and context injection into AI pipelines.
- Provisioned Kubernetes clusters via Terraform and designed a real-time **Next.js dashboard** to visualize the self-healing workflow status.

## Cloud Inventory Assistant (Anthropic MCP Server)

Anthropic Model Context Protocol, Python, AWS SDK (Boto3), IAM, Multi-Account Management

- Engineered an **Anthropic Model Context Protocol (MCP)** server enabling natural language queries across **15+ AWS accounts**, reducing resource discovery time by **90%**.
- Implemented secure cross-account IAM roles for read-only inventory auditing, automating detection of **100+ security group misconfigurations** and idle resources.
- Created CLI tool integration for real-time cloud inventory queries, streamlining operational workflows for infrastructure teams.

## **Skills**

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**Cloud Platforms:** AWS (EC2, EKS, Lambda, S3, IAM, VPC, RDS, CloudFormation), GCP (GKE, Cloud Storage, Cloud Build, IAM), Azure

**Containers & Orchestration:** Kubernetes, Docker, Helm, Karpenter, ECR, Docker Compose

**CI/CD & GitOps:** Jenkins, GitHub Actions, ArgoCD, FluxCD, Terraform, Ansible, Git

**Networking & Infrastructure:** VPC, DNS, Load Balancing, VPN, CloudFront (CDN), Nginx

**Monitoring & Observability:** Prometheus, Grafana, Datadog, OpenTelemetry, Loki, CloudWatch

**DevSecOps & Security:** Trivy, SonarQube, HashiCorp Vault, OPA, Checkov, IAM Best Practices

**Databases:** PostgreSQL, DynamoDB, Redis

**AIOps Stack:** LangChain, RAG Pipelines, Anthropic MCP, Vector Databases, Ollama

**Programming & Scripting:** Python, Java, Bash, Shell Scripting, YAML, JSON, Linux Administration

## Certifications

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**AWS Certified Cloud Practitioner**

*May 2025*

**Oracle AI Vector Professional Certified**

*Apr 2025*

## Education

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**JIET Jodhpur**

*Aug 2020 – May 2024*

*in Bachelor of Technology (B.Tech) in Computer Science*

## Leadership and Extracurricular

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**President, JIET Student Council**

*Apr 2023 – May 2024*

- Led a team of **150+ members** and secured **₹20 Lakh** in corporate sponsorships, demonstrating stakeholder management and negotiation skills.

**Secretary, CSE Department**

*Apr 2022 – Mar 2023*

- Organized large-scale technical hackathons, increasing student engagement by **40%** and fostering a culture of innovation.