

# Shubham Bhagwat

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## A DevOps / Cloud Engineer with strong IaC, Automation, and Multi-Cloud experience

DevOps Engineer with 3+ years of experience building automated, scalable, and reliable cloud infrastructure. Skilled in designing CI/CD pipelines, managing multi-cloud environments, and implementing Infrastructure as Code to streamline deployments and reduce operational overhead.

### WORK EXPERIENCE

#### Independent Work

08/2024 - Present

#### DevOps & Platform Engineering Projects

Pune, Maharashtra

Focused on building automated cloud environments, platform workflows, and research-grade infrastructure systems.

- Built a **production-grade private cloud lab** with Kubernetes, automated rebuild workflows, observability stacks, and multi-node networking to simulate real DevOps/platform environments.
- Engineered secure **network-routing and telemetry systems** using Tailscale, and IoT components to study traffic flow, reliability, and distributed network behaviors.
- Developed **modular IaC + automation systems** (Terraform, CloudFormation, Python/Bash) for reproducible infra provisioning, environment resets, and one-command orchestration pipelines.
- Implemented **GitOps-style deployments** across OpenShift and containerized services, integrating AI-assisted YAML/IaC generation, log analysis, and automated runbook workflows.

#### Persistent Systems

01/2022 - 08/2024

#### DevOps Engineer

- Built and automated **multi-cloud IaC stacks** (Terraform, CloudFormation) to standardize provisioning across AWS and Azure, cutting deployment time by **40%** and reducing environment drift.
- Designed and maintained **end-to-end CI/CD pipelines** (Circle CI and Github Actions) enabling faster, safer releases and improving team delivery consistency.
- Improved internal tooling by contributing to **Open-Source RHEL/IBM (ppc64le)** modules; features were adopted and forked by **290+ developers** across the community.
- Collaborated closely with dev teams to bake automation into early-stage workflows, tightening feedback loops and reducing operational load.
- Implemented and operated **Kubernetes** clusters for production workloads, achieving **99.9% uptime** through proactive capacity planning and reliability-focused automation.
- Automated configuration management using **Ansible**, reducing repetitive operations and bringing provisioning times down by **50%**.

#### Jr DevOps Engineer

- Containerized and deployed microservices using **Docker** and scaled them via **Kubernetes**, improving resource efficiency by **20%**.
- Assisted in a major migration to **AWS**, setting up auto-scaling groups, load balancers, and secure VPC networking to improve resiliency and cut downtime by **25%**.
- Collaborated closely with dev teams to bake automation into early-stage workflows, tightening feedback loops and reducing operational load.
- Participated in the Docker community, resolving issues and adding features to improve container orchestration scripts, with contributions merged into core repositories.

#### Software Intern

- Built automation scripts in **Bash** and **Python** to streamline cloud resource provisioning on AWS, freeing dev teams from manual setup and reducing onboarding friction.

- Gained hands-on experience with **EC2, S3**, and IAM-based access patterns, contributing to early infrastructure cost optimization.
- Developed a habit of automating.

## PROJECTS

### Private Cloud Lab (Ongoing)

Built a full multi-node homelab simulating production infra: Kubernetes clusters, GitOps workflows, automated rebuild pipelines, service routing, observability stacks, and AI-assisted IaC generation for rapid environment creation.

### Network Telemetry & Filtering System

Designed an IoT-powered traffic inspection + filtering layer to study routing behaviors, DNS tunneling, packet visibility, and reliability patterns across distributed nodes using Tailscale, and custom automation scripts.

### Automated Infra Validation & Reset Framework

Developed a framework of scripts and workflows to automatically validate infra states, detect drift, reset clusters, clean environments, rebuild nodes, and run health checks—turning multi-step recovery tasks into single-command operations.

### Container Systems Engineering Sandbox

Built a multi-service Docker platform using Docker Compose to experiment with image builds, optimization, service networking, and environment replication. Automated build–test–deploy workflows to validate container behavior, reliability, and configuration patterns.

## SKILLS

- **☞Infrastructure, Cloud & Platforms:** Auto Scaling, AWS, Azure, Cloud Networking, Docker, IAM, IBM Cloud, Kubernetes, Linux (RHEL, Load Balancers, OpenShift, ppc64le), VPC
- **☞Infrastructure as Code & Configuration:** Ansible, CloudFormation, Environment Provisioning, GitOps Workflows, Helm, JSON, Modular IaC Frameworks, Terraform, YAML
- **☞CI/CD & Automation:** API-Automation, Bash, CircleCI, GitHub Actions, GitLab CI, Jenkins, Python, Release Automation, Tekton, Travis, Workflow Scripting
- **☞Observability, Monitoring & Reliability:** Alerting Systems, CloudWatch, Distributed System Diagnostics, Grafana, Log Analysis, Prometheus, Reliability Patterns
- **☞Security & Access Control:** IAM Policies, Least Privilege Design, Network Security Groups, Policy Compliance, RBAC, Secrets Management
- **☞Tooling, Collaboration & Practices:** Agile Workflows, Cross-domain Coordination, Documentation-first Execution, Git, GitHub, Remote Environments, Systems Thinking
- **☞AI-Augmented Infrastructure:** AI-assisted debugging and log analysis, automated runbooks, deployment pattern detection, GPT-powered homelab tools, intelligent config generation, LLM-generated IaC templates

## CERTIFICATIONS

### AZ-900: Microsoft Azure Fundamentals

### Google Cloud – Cloud Engineering Badges

### Kubernetes in Google Cloud, AWS Cloud Fundamentals

## EDUCATION

### Bachelors in Computer Engineering

Pune University • GPA: 9.2

08/2018 - 03/2022