

# Anurag Kumar

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## TECHNICAL SKILLS

**Cloud & Infrastructure:** AWS (EC2, S3, Lambda, CloudWatch, IAM, VPC, Auto Scaling), Google Cloud Platform (Compute Engine, Cloud Functions), Azure  
**DevOps & CI/CD:** Jenkins, GitHub Actions, GitLab CI, Argo CD, Automated Deployment Pipelines, Release Management  
**Containerization:** Docker, Kubernetes, Helm, Container Orchestration, Multi-Stage Builds, Pod Management  
**Infrastructure as Code:** Terraform, Ansible, CloudFormation, Configuration Management  
**Monitoring & Observability:** Prometheus, Grafana, CloudWatch, ELK Stack, Log Aggregation, Alert Management  
**System Administration:** Linux (Ubuntu, CentOS, RHEL), Performance Optimization, Security Hardening, Server Management  
**Programming & Scripting:** Python, Bash, Shell Scripting, YAML, Java, JavaScript, SQL  
**Version Control & Collaboration:** Git, GitHub, GitLab, Code Reviews, Agile/Scrum  
**Databases:** PostgreSQL, MongoDB, MySQL, Database Administration, Query Optimization  
**Languages:** English (Fluent - Professional Working Proficiency), Hindi (Native)

## PROFESSIONAL EXPERIENCE

### DevOps Engineer

Oct 2024 – Dec 2024

Bhilai Steel Plant

Bhilai, India

- Architected and deployed cloud infrastructure on AWS and GCP supporting 500+ daily users, achieving 99.9% uptime by implementing automated monitoring, health checks, and failover mechanisms using Prometheus and Grafana
- Spearheaded CI/CD pipeline implementation with Jenkins and GitHub Actions, reducing deployment time from 2 hours to 30 minutes (70% reduction) and enabling 5+ daily releases with zero-downtime deployments
- Engineered containerization strategy using Docker and Kubernetes, orchestrating 15+ microservices across multi-node clusters with horizontal pod autoscaling, reducing resource costs by 30% through optimized resource allocation
- Drove Infrastructure as Code adoption using Terraform, provisioning and managing 50+ cloud resources across dev, staging, and production environments, eliminating manual configuration errors and reducing environment setup time by 80%
- Automated 20+ repetitive system administration tasks with Python and Bash scripts, saving 15 hours weekly in manual operations and reducing human error by 90% through standardized automation workflows
- Collaborated with 5-member development team in Agile sprints to design secure deployment strategies, implementing SSL/TLS encryption, IAM policies, and security scanning that passed all compliance audits
- Optimized cloud infrastructure spending, identifying and eliminating unused resources, implementing auto-scaling policies, and rightsizing instances to achieve 30% cost reduction (\$5K+ monthly savings)
- Led incident response initiatives, reducing mean time to resolution (MTTR) from 2 hours to 20 minutes by establishing comprehensive monitoring, alerting systems, and detailed runbook documentation

## TECHNICAL PROJECTS

### Enterprise-Grade CI/CD Pipeline & Kubernetes Platform | GitHub

- Designed and implemented end-to-end CI/CD infrastructure handling 100+ deployments monthly, integrating Jenkins and GitHub Actions with automated testing, security scanning, and quality gates that reduced production bugs by 40%
- Containerized full-stack application using Docker multi-stage builds, optimizing image layers and dependencies to reduce final image size from 1.2GB to 450MB (60% reduction), improving deployment speed by 5 minutes per release
- Deployed production-ready Kubernetes cluster on AWS with 10+ nodes using Helm charts, implementing rolling updates, health checks, auto-healing, and automatic rollback capabilities ensuring zero downtime during 50+ deployments
- Configured GitOps workflow with Argo CD enabling automatic synchronization of infrastructure state, reducing deployment errors by 85% and providing complete audit trail for compliance requirements
- Built comprehensive monitoring solution with Prometheus and Grafana featuring 15+ custom dashboards, 30+ alerting rules, and real-time performance metrics tracking, reducing incident detection time from 45 minutes to under 5 minutes

### Cloud Infrastructure Automation with Terraform

- Developed Infrastructure as Code framework using Terraform to provision 50+ AWS and GCP resources including VPCs, load balancers, databases, and compute instances, reducing manual setup time from 2 days to 2 hours (90% faster)
- Created 10+ reusable Terraform modules for standardized infrastructure deployment, enabling consistent environment replication and reducing configuration drift incidents from 15+ monthly to zero
- Implemented remote state management with S3 backends, state locking with DynamoDB, and workspace isolation supporting 3 environments (dev, staging, prod), preventing 20+ potential state corruption issues
- Integrated cost optimization strategies including spot instances (40% savings), reserved capacity, and intelligent auto-scaling policies, reducing monthly infrastructure costs from \$15K to \$10K

### Microservices Platform with Advanced Orchestration | GitHub

- Architected containerized microservices platform handling 5,000+ requests/second using Docker and Kubernetes, implementing service mesh, load balancing, and circuit breaker patterns ensuring 99.95% availability
- Configured horizontal pod autoscaling with custom metrics (CPU, memory, request rate), automatically scaling from 3 to 20 pods during peak traffic, maintaining sub-200ms response times under high load
- Established centralized logging infrastructure with ELK stack processing 10GB+ daily logs, implementing distributed tracing and correlation IDs reducing troubleshooting time from hours to minutes
- Integrated automated security scanning in CI/CD pipeline using Trivy and SonarQube, identifying and remediating 50+ vulnerabilities before production deployment, achieving zero security incidents

## EDUCATION

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**Bachelor of Technology in Computer Science & Engineering (AI/ML)**

*Shri Shankaracharya Technical Campus, Junwani, Chhattisgarh*

*2021 – 2025*

*CGPA: 8.2/10*

## CERTIFICATIONS

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- AWS Cloud Practitioner – Amazon Web Services
- Google Foundations of Cybersecurity – Google