SAARTHAK TYAGI

DEVOPS & CLOUD ENGINEER

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CAREER SUMMARY

DevOps Engineer specializing in Kubernetes Orchestration, Infrastructure as Code (Terraform), and GitOps Automation. Proven track record of architecting self-healing infrastructure and optimizing containerized production workflows. Assistant Cloud Lead at GDG IIIT Bhopal.

EDUCATION AND CERTIFICATION

IIIT Bhopal — B.Tech CSE (2024–2028)
GPA: 8.34

DPS Noida — Class XII (2023)
Percentage: 91.8%

TECHNICAL SKILLS

- **Containerization & Orchestration:** Kubernetes (Kind, StatefulSets, Ingress, Pods), Docker (Multi-Stage Builds, Compose), Helm, Container Networking.
- **CI/CD and GitOps:** ArgoCD, GitHub Actions (Matrix, OIDC), Jenkins (Declarative Pipelines), Git.
- **IaC & Cloud:** Terraform (State Management, Modules, AWS Provider), AWS (EC2, S3, VPC, IAM, Networking, EBS).
- **Programming & Scripting:** Python (Boto3), Bash, HCL, SQL, C, C++,Flask
- **DevOps Principles:** GitOps, AIOps, Monitoring, Microservices
- **Competitive Programming:** 300+ DSA problems, Codeforces Pupil, CodeChef 3 Star

PROJECTS & EXPERIENCE

K8s-Genesis| E-Commerce GitOps Platform
Architected a production-grade microservices platform deployed on a multi-node Kubernetes cluster
- *Implemented ArgoCD (GitOps) for declarative rollouts, achieving Zero-Downtime Deployments and persistent data storage.*
- *Tech Stack: Kubernetes, ArgoCD, Kind, Nginx, MongoDB, Docker.*

The Heimdall Protocol| Autonomous Self-Healing Infrastructure
Built an AIOps-based closed-loop system using Jenkins and Python to automate recovery from infrastructure failures.
- *Reduced Mean Time to Recovery (MTTR) by 40% by automating incident response and rollback workflows via Terraform.*
- *Tech Stack: Jenkins, Terraform, Docker, Python, AWS.*

The Genesis Pipeline| On-Demand Deployment Platform
Automated an on-demand deployment and configuration platform for custom server environments via Jenkins.
- *Managed infra provisioning with **Terraform** and Bash scripting, enabling instant server spin-up/tear-down with custom configurations.*
- *Tech Stack: Jenkins, Docker, Terraform, Bash, AWS*

PROFESSIONAL DEVELOPMENT

- Assistant Cloud Lead | GDG IIIT Bhopal: Leading workshops on Cloud Computing and DevOps for 2nd-year students. Organizing hackathons and technical seminars.
- Gold Medal for academic excellence (6 consecutive years).
- Active participation in coding contests, DevOps bootcamps, and technical workshops.