

MOHAMMAD KASIM

Location: India — Open to Relocation — Remote

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SUMMARY

DevOps Engineer experienced in automating deployments, building CI/CD pipelines, and managing scalable cloud infrastructure using AWS, Terraform, Docker, Kubernetes, and Jenkins. Skilled in IaC, containerization, monitoring, and configuration management to improve reliability and deployment efficiency.

PROJECTS

2-Tier Application Deployment on AWS

[GitHub Link](#)

Architected and deployed a production-grade **2-tier AWS architecture** using **EC2** and **RDS MySQL**, achieving **99.9% uptime**.

Configured **VPC security groups**, **IAM roles**, **environment variables**, and **Linux dependencies** to enforce least-privilege access.

Implemented a **systemd service** for the Django backend to ensure automatic restarts and high availability.

CI/CD Automation Project (Jenkins + Docker + AWS EC2)

[GitHub Link](#)

Built a **5-stage CI/CD pipeline** using Jenkins, Docker, GitHub Webhooks, and AWS EC2, reducing manual deployments by **90%**.

Automated Docker image build, push, and container deployment with real-time email notifications for success and failure monitoring.

Infrastructure as Code (IaC) on AWS using Terraform

[GitHub Link](#)

Provisioned scalable **AWS infrastructure** using **Terraform**, enabling environment provisioning in under **5 minutes**.

Developed **modular Terraform configurations** for **VPC**, **subnets**, **EC2**, **IAM**, and **security groups**, improving reusability by **60%**.

Implemented **remote state management** using **S3** and **DynamoDB** to prevent state conflicts.

EDUCATION

2023 - Present	Birla Institute of Applied Sciences, Bhimtal, Uttarakhand B-Tech in Computer Science and Engineering.	(CGPA: 7.2)
2022	Chhauni Children's Academy Class 12th	(82%)

TECH STACK

- **Source Code Management:** Git, GitHub
- **Containerization:** Docker
- **Container:** Kubernetes, Docker
- **Cloud Services:** AWS
- **Scripting Languages:** Bash, Python
- **CI/CD:** Jenkins, GitHub Actions
- **Infrastructure as Code (IaC):** Terraform
- **Configuration Management:** Ansible
- **Monitoring:** Grafana, Prometheus
- **Others:** Linux, YAML, Networking, OS, OOPS

ACCOMPLISHMENTS AND SHOWCASE

- National Finalist at Smart India Hackathon (SIH) 2025 for building a scalable problem-solving solution.
- Secured 3rd Runner-up position in NASA Space Apps Challenge 2025.
- Earned YOLO and Pull Shark badges on GitHub for open-source contributions.
- Active technical blogger on Hashnode with multiple writing badges.