Sinhal Shambharkar

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PROFILE SUMMARY

Aspiring DevOps Engineer | Hands-on with Kubernetes, Docker, CI/CD, GitOps & AWS | Passionate about building scalable and secure deployment pipelines

EDUCATION

NBN Singhad Technical Institute   *Pune,Maharashtra*
Electronics and Telecommuincation Engineering   *2021* – 2025

SKILLS

Technical skills: Git, GitHub, Docker, Kubernetes (EKS), Jenkins, GitLab CI/CD, Terraform, Ansible, AWS (EC2, S3, IAM, EKS), Grafana, Prometheus, Linux Shell, Python

Tools: Java, Python, Docker, Kubernetes,Jenkins CI/CD, Ansible

PROJECTS

Accident Prevention and Detection System using IoT and Raspberry Pi   *2024* – 2025

- Developed a smart accident detection and vehicle tracking system using Raspberry Pi, GPS, GSM, and Twilio API to enable real-time monitoring and automated emergency SMS alerts.

- Integrated accelerometer, ultrasonic, vibration, and sound sensors, optimizing thresholds to reduce false accident alerts by 30%.

- Implemented power-saving algorithms and sensor scheduling, achieving a 25% improvement in battery efficiency for long-term deployment.

- Designed a proximity-based speed reduction system with ultrasonic sensors, improving vehicle safety in congested environments, and created IoT dashboards with ThingSpeak for remote monitoring and accident analysis.

End-to-End Deployment of Django Notes Application   *2024* – 2025

- Deployed a Django Notes App using Docker & Docker Compose for containerized environments.

- Configured Nginx reverse proxy for routing, static file handling, and scalability.

- Deployed on AWS EC2 ensuring availability and smooth application access.

- Managed environment variables (.env) for secure configuration and database connectivity.

End To End Deployment of a Three-Tier App GitOps on AWS EKS Cluster   *2024* – 2025

- Deployed a three-tier application on AWS EKS using ArgoCD GitOps, streamlining deployments.

- Reduced setup time by 30% using Terraform for AWS provisioning.

- Achieved a 95% deployment success rate with zero downtime by implementing a Jenkins-driven CI/CD pipeline.

- Cut manual intervention by 80% through ArgoCD integration, ensuring seamless synchronization between GitHub and EKS.

- Improved issue detection time by 40% with Prometheus and Grafana, enabling faster response to critical alerts

- Delivered 99.9% deployment success, improved scalability, and cut manual efforts by 90%.