

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

Electronics and Telecommuincation Engineering

Pune, Maharashtra

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.

Shell Script for User Management and Backup in Linux

2024 – 2025

- Created a Linux shell script to automate user management and directory backups.
- Automated user account and group management tasks, improving efficiency and accuracy. integrity.
- Developed an automated backup system, enhancing data security and integrity.
- Gained expertise in Linux system administration, shell scripting, and version control with Git/GitHub.
- Streamlined system administration tasks, reinforced Linux security practices, and ensured reliable backup processes.

Two-Tier App Containerization with Docker & Image Scanning

2024 – 2025

- Containerized a two-tier application using Docker and managed deployment with Docker Compose.
- Created and managed Docker images, optimizing container performance.
- Conducted vulnerability scanning with Docker Scout to enhance security.
- Improved understanding of container networking and Docker security best practices.
- Streamlined application deployment, bolstered security, and deepened containerization expertise.