Apurva Gargote

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Education

DR. DY. PATIL INSTITUTE OF MANAGEMENT AND RESEARCH, B.Tech in Electronics & Telecommunication Engineering	May 2021 – May 2025

- GPA: 8.81/10.0

Skills

Operating System: Linux

Cloud Platforms: AWS, Cloud Computing

Containerization & Orchestration: Docker, Kubernetes

CI/CD Tools: GitHub Actions, Jenkins

Infrastructure as Code (IaC): Terraform, Ansible

Scripting & Automation: Shell Scripting, Python, Bash

Version Control : Git, GitHub

Web Server : Nginx

Monitoring & Logging : Prometheus, Grafana

Networking & Security : VPC, load balancers, firewalls, DNS

Projects

Cloud-Native Resource Monitoring Application   `Github Link`

- Built a Flask-based monitoring app using Python and psutil for real-time CPU, memory, and disk tracking (updates every 2s).
- Containerized with Containerd and deployed on Kubernetes (KIND) for scalability and resilience.
- Achieved 300ms response time with Kubernetes orchestration, auto-scaling, and service discovery.
- Automated deployment using Kubernetes manifests, reducing setup time by 40%

Node.js ToDo App   `Github Link`

- Automated deployment of a Node.js ToDo app on AWS EC2 using Jenkins, reducing manual effort by 80%.
- Containerized with Docker to ensure consistent environments and enable zero-downtime releases.
- Integrated GitHub Webhooks, cutting deployment time by 50% and achieving 95% build success.

Two-Tier Flask App   `Github Link`

- Developed and deployed a two-tier Flask app with a MySQL database on Kubernetes using containerd.
- Implemented Kubernetes Deployments, Services, and PVCs to ensure high availability and persistent storage.
- Optimized resource allocation, improving system efficiency and achieving 99.9% uptime.
- Enabled seamless user interaction, Enhanced security with Kubernetes network policies and AWS Security Groups for controlled access.

Awards

Technical Blogger – Hashnode	Feb 2025

- Documenting the learning journey by writing about DevOps tools, best practices, and real-world challenges. Sharing hands-on insights to help others navigate the complexities of DevOps and cloud technologies.

Top Performer – Smart India Hackathon (SIH)	Dec 2024

- Developed a real-time construction site monitoring dashboard using Power BI, integrating RFID, IoT sensors, and CCTV analytics to track worker check-ins, detect leakages, and monitor site conditions. Leveraged sensor data and live camera feeds to enhance safety, prevent hazards, and streamline workforce management.