Nitesh Pawar

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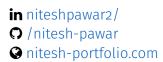in niteshpawar2/
⏻ /nitesh-pawar
🌐 nitesh-portfolio.com

🎓 Education

Sinhgad College of Engineering, Pune
B.Tech in Electronics and Telecommunication Engineering | CGPA: 8.17/10

2020 – 2023
Pune, Maharashtra, India

Government Polytechnic College, Yavatmal
Diploma in Electronics and Telecommunication Engineering

2016 – 2020
Yavatmal, Maharashtra, India

◔ Experience

Tata Communications Limited
Associate Engineer – Network Operations Center (NOC)

July 2024 – Dec 2024
Pune

> Monitored network infrastructure 24/7 to detect anomalies and proactively address performance issues, ensuring high availability and reliability.

> Troubleshot and resolved network issues involving **DNS, DHCP, routing, switching, and firewall configurations**.

> Documented incidents, resolutions, and standard operating procedures for knowledge sharing and process improvement.

> Collaborated with cross-functional teams to escalate and resolve complex incidents, reducing mean time to resolution (MTTR).

> Analyzed network traffic patterns to identify bottlenecks and proposed optimizations to enhance performance.

> Configured and maintained network devices such as routers, switches, and firewalls to ensure security and efficiency.

☰ Projects

End-to-End CI/CD Pipeline for a Microservices Application

> **Tech Stack: Jenkins** (Freestyle Pipeline Jobs), **Git**, **Maven**, **SonarQube**, **Docker**, **Docker Hub**, **Kubernetes** (Minikube/EKS), **Helm**, **ConfigMaps**, **Secrets**, **Ingress**, **Prometheus**, **Grafana**, **Jenkins RBAC**

> Automated build, test, and deployment workflows for a Java-based microservices app using Jenkins.

> Implemented CI/CD pipeline with Jenkins, integrated with Git, Maven, and SonarQube.

> Containerized services using Docker and pushed images to Docker Hub.

> Deployed services to Kubernetes (Minikube/EKS) using Helm with Rolling Update strategy.

> Used ConfigMaps and Secrets for managing environment-specific configurations.

> Enabled health checks and resource limits via probes and manifests.

> Set up Prometheus and Grafana for performance monitoring.

> Ensured security using Jenkins RBAC and Docker image vulnerability checks.

Automated Provisioning and Deployment of Web App on AWS

> **Tech Stack: Ansible** (roles, playbooks, vaults, templates), **AWS** (**EC2**, **VPC**, **S3**, **RDS**, **ELB**, **Security Groups**), **AWS CloudWatch**, **Nginx**/**Apache**, **Git**, **IAM**, **Ansible Vault**

> Used Ansible playbooks and roles to automate AWS infrastructure provisioning (EC2, VPC, S3, RDS, ELB).

> Configured public/private subnets, NAT gateways, and security groups for secure networking.

> Automated web server setup (Nginx/Apache) and app deployment from Git.

- Connected web app to RDS instance with automated credential management using Ansible Vault.
- Implemented CloudWatch monitoring and log rotation.
- Scheduled EBS volume snapshots via Ansible for regular backups.

Kubernetes-based Multi-tier Application with Centralized Monitoring

- **Tech Stack: Kubernetes** (Kubeadm or EKS), **Helm**, **Docker**/**Podman**, **ConfigMaps**, **Secrets**, **Prometheus**, **Grafana**, **K9s**, **PV**/**PVC**, **Storage Classes**, **RBAC**, **ServiceAccounts**, **SecurityContexts**
- Deployed multi-container pods (including init and sidecar containers) on Kubernetes using Helm.
- Configured persistent storage with PVs, PVCs, and Storage Classes.
- Exposed services with Ingress and internal access via ClusterIP/NodePort.
- Monitored app performance using Prometheus (Node Exporter) and Grafana dashboards.
- Applied RBAC, ServiceAccounts, and SecurityContexts for access control.
- Defined resource requests/limits and liveness/readiness probes for resilience.
- Used kubectl commands and K9s for troubleshooting and live monitoring.

⚙ Skills

Programming Core Java, JavaScript, Go (Golang), Python, Shell Scripting

Operating Systems Linux, Ubuntu, RHEL

Cloud Platforms Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

Containerization Docker, Podman

Orchestration Kubernetes, Kubernetes (VKS), Azure Kubernetes Service (AKS), Amazon Elastic Kubernetes Service (EKS), Helm Charts

Configuration Management Ansible

CI/CD Tools Jenkins, Git, GitHub, Maven, SonarQube

Monitoring Logging Prometheus, Grafana, K9s

Web Servers Nginx

Database Technologies MySQL, MongoDB, PostgreSQL, SQL Server

Other Tools Concepts Microservices, Kubernetes Operator Framework, RabbitMQ, Terraform, Helm, Jinja, Azure Marketplace

📘 Courses & Trainings

- **Udemy** – DevOps Bootcamp: Docker, Jenkins, Ansible
- **Coursera** – AWS Fundamentals: Going Cloud-Native
- **KodeKloud** – Kubernetes
- **freeCodeCamp** – Bash Scripting and Linux Command Line

👤 Personal Information

Date of Birth 22/02/2000

Gender Male

Nationality Indian

Permanent Address At. Khed, Tq. Darwha, Dist. Yavatmal

Languages Known English, Marathi, Hindi