

Preetham Loyd Pereira

Aspiring DevOps Engineer | Cloud | Kubernetes | CI/CD | Terraform | AWS
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Summary

Aspiring DevOps Engineer with hands-on experience in CI/CD automation, Docker, Kubernetes, and Infrastructure as Code using Terraform. Experienced with AWS cloud services, monitoring using Prometheus and Grafana, and automation using Python and Bash. Passionate about building scalable and reliable cloud infrastructure using DevOps best practices.

Technical Skills

Cloud: AWS (EC2, S3, IAM, VPC, CloudWatch), Azure, GCP

DevOps Tools: Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Helm, Ansible

CI/CD: GitHub Actions, Jenkins, CI/CD Pipeline Automation

Version Control: Git, GitHub

Monitoring: Prometheus, Grafana, OpenTelemetry

Programming/Scripting: Python, Bash

Systems: Linux Administration, Networking, Security, High Availability, Reliability Engineering

Concepts: Containerization, Orchestration, CI/CD Automation, Monitoring, Incident Management

Projects

Kubernetes Capstone Project – WordPress + MySQL on Kubernetes

[View Project](#)

Technologies: Kubernetes, Docker, MySQL

- Deployed WordPress and MySQL on Kubernetes using Deployments, StatefulSets, Services, ConfigMaps, Secrets, and Persistent Volumes.
- Implemented Resource Limits, Probes, and Horizontal Pod Autoscaler (HPA) for high availability and auto-scaling.
- Improved application availability and scalability using Kubernetes self-healing and auto-scaling.

Flask DevSecOps CI/CD Pipeline using GitHub Actions

[View Project](#)

Technologies: GitHub Actions, Docker, Trivy

- Built a DevSecOps CI/CD pipeline using GitHub Actions.
- Automated Docker build, testing, vulnerability scanning, and deployment workflow.
- Reduced manual deployment effort and improved deployment reliability.

Infrastructure as Code using Terraform / AWS CDK

[View Project](#)

Technologies: Terraform, AWS, Python

- Provisioned AWS infrastructure using Infrastructure as Code.
- Automated infrastructure provisioning using Terraform / AWS CDK.
- Reduced manual setup time and improved deployment consistency.

Dockerized Multi-Container Application using Docker Compose

[View Project](#)

Technologies: Docker, Docker Compose

- Containerized a full-stack application using Docker and Docker Compose.
- Created Dockerfiles and managed multi-container deployment.
- Ensured consistent environment across development and deployment.

DevOps Automation API using FastAPI

[View Project](#)

Technologies: FastAPI, Python, AWS Boto3

- Developed a FastAPI-based DevOps automation tool for log analysis and AWS EC2 monitoring.
- Automated operational checks using AWS Boto3.
- Reduced manual monitoring effort through automation.

Soft Skills

Problem Solving | Troubleshooting | Collaboration | Communication | Time Management | Adaptability | Continuous Learning

Certifications

- AWS Certified Cloud Practitioner – In Progress
- Terraform Associate – In Progress
- Certified Kubernetes Application Developer (CKAD) – In Progress

Work Experience

Second Division Assistant – Yenepoya University

Nov 2023 – Oct 2025

- Managed records with 99% accuracy and reduced documentation errors by 30%.
- Improved operational efficiency by 25% through workflow optimization.

Education

MCA (Cybersecurity) – Jain University

2024 – 2025

BBA – Padua College

2019 – 2022