

Preetham Loyd Pereira

Entry-Level DevOps Engineer | Cloud | Kubernetes | CI/CD | Terraform | AWS

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Professional Summary

Entry-level DevOps Engineer with hands-on project experience in Amazon Web Services (AWS), Kubernetes (K8s), Docker, Terraform, GitHub Actions, and Argo CD. Built production-style projects covering DevSecOps, GitOps, CI/CD, observability, autoscaling, and AIOps troubleshooting. Seeking a junior DevOps role focused on automation and reliable cloud operations.

Tools

Cloud: Amazon Web Services (AWS), EC2, Elastic Kubernetes Service (EKS), S3, IAM, VPC, EBS, CloudWatch

Containers & Orchestration: Docker, Kubernetes (K8s), Helm, Deployments, StatefulSets, Services, ConfigMaps, Secrets, Persistent Volumes, PVCs, HPA, Gateway API, HTTPRoute

CI/CD & GitOps: GitHub Actions, Jenkins, Argo CD, GitOps, Continuous Integration, Continuous Deployment, Pipeline as Code

Infrastructure as Code: Terraform, Ansible, Infrastructure as Code (IaC), YAML

Monitoring & Security: Prometheus, Grafana, OpenTelemetry, Trivy, Docker Image Scanning, CloudWatch

Scripting & Concepts: Python, Bash, FastAPI, Boto3, Git, Linux Administration, Networking, MySQL, Incident Management

Projects

AI-Powered BankApp Platform

[View Project](#)

Technologies: AWS EC2, Amazon ECR, GitHub Actions, Docker Compose, MySQL, Ollama, Trivy, OWASP ZAP

- **Implemented DevSecOps automation** for a Spring Boot banking application with MySQL and Ollama AI integration, deployed on AWS EC2 using Docker Compose.
- **Built a 9-gate GitHub Actions DevSecOps pipeline** with SAST, dependency scanning, image scanning, ECR publishing, EC2 deployment, and OWASP ZAP DAST.
- **Configured AWS OIDC authentication** and Amazon ECR publishing so GitHub Actions could push verified Docker images without long-lived AWS access keys.
- **Automated EC2 deployment** over SSH with Docker Compose, AWS Secrets Manager, and jq-based environment generation for database and Ollama runtime configuration.

SkillPulse Three-Tier Kubernetes Deployment

[View Project](#)

Technologies: Docker, Kubernetes, GitHub Actions, Helm, Argo CD, Prometheus, Grafana, Trivy, NGINX Ingress

- **Containerized a three-tier SkillPulse application** with frontend, Go backend, and MySQL services, optimizing Docker images to **22.4 MB backend** and **62.4 MB frontend** builds.
- **Built GitHub Actions CI/CD workflows** with Docker Buildx caching, Trivy image scanning, and redeploy automation; validated successful CI in **1m 8s** and CD redeploy in **12s**.
- **Deployed Helm chart version 0.1.0** across dev, staging, and production namespaces with environment-specific values and **3 Argo CD applications** in Healthy/Synced state.
- **Implemented Argo CD self-healing/rollback**, Prometheus/Grafana alerts, centralized logs, AIOps analysis, MySQL backup/restore, **10% canary ingress**, and HPA scaling to **5 replicas**.

Agentic AI for DevOps Troubleshooting

[View Project](#)

Technologies: Python, LangChain, LangGraph, FastMCP, Ollama, Gemma4, Kubernetes, Temporal

- **Built a 7-module Agentic AI DevOps toolkit** using Python, LangChain, LangGraph, FastMCP, Ollama, and local Gemma4 models.
- **Created ReAct-style Docker and Kubernetes agents** with **6 operational tools** and a FastMCP server for dynamic tool discovery.
- **Built GitHub Actions and Terraform analyzers** to isolate failed CI steps, summarize successful/skipped workflow stages, and inspect Terraform plan output.
- **Developed KubeHealer AIOps workflow** with Temporal to diagnose ImagePullBackOff, CrashLoopBackOff, and ConfigMap errors with safe remediation guardrails.

Training & Certifications

AWS Zero to Hero | Agentic AI for DevOps | Azure DevOps Zero to Hero – TrainWithShubham

Education

MCA, Cybersecurity – Jain University

2024 – 2025

BBA – Padua College

2019 – 2022