

Joseph M J

DevOps Engineer

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📍 Bangalore, India

🌐 GitHub Portfolio: github.com/josephmj0303

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SUMMARY

DevOps Engineer with 2+ years of experience in designing, automating and deploying scalable cloud-native and containerized applications on AWS and Azure. Skilled in Kubernetes (EKS, k3s), Terraform, CI/CD pipelines (GitHub Actions, Jenkins), and GitOps (ArgoCD). Hands-on with container security (Trivy), monitoring (Prometheus, Grafana, Loki, Grafana Alloy), and production-grade infrastructure across client projects and 20+ portfolio projects spanning multi-cloud environments.

CORE SKILLS

Cloud Platforms

- AWS (EC2, ECS, EKS, IAM, S3, RDS, ALB, VPC, ECR, CloudFront)
- Azure (App Service, PostgreSQL, Static Web Apps, VNet, RBAC)

Infrastructure as Code

Terraform, Ansible

Containers & Orchestration

Docker, Kubernetes (EKS, k3s), Helm, Ingress Controllers (ALB, NGINX), Amazon ECR

Monitoring & Security

Prometheus, Grafana, Loki, Grafana Alloy, CloudWatch, Trivy, Slack

CI/CD & GitOps

GitHub Actions, GitLab CI, Jenkins, ArgoCD, SonarQube, Nexus Repository

OS, Scripting & DB

Linux, Bash, Python, PostgreSQL, MySQL, MSSQL

PROFESSIONAL EXPERIENCE

Freelance DevOps Engineer, Client Projects & Portfolio

Dec 2025 – Present

- Architected, deployed, and currently managing a production-grade AWS e-commerce platform for a live client using EC2, ALB, CloudFront, RDS, and VPC, with infrastructure automated through Terraform and zero-downtime deployments delivered via GitHub Actions CI/CD.
- Delivered a containerized CRM platform (.NET + MSSQL Server 2022) on VPS using Docker Compose, Nginx reverse proxy, DNS, and TLS automation — reducing manual setup effort by consolidating 5+ infrastructure components into a reproducible deployment workflow.
- Built and published 20+ end-to-end DevOps projects on GitHub covering Kubernetes, GitOps, CI/CD, observability, and multi-cloud infrastructure across AWS and Azure.

DevOps Engineer, MTG TECHSOFT

Nov 2023 – Oct 2025 | Ranipet

- Designed and implemented CI/CD pipelines using GitHub Actions, Jenkins, SonarQube, and Nexus, reducing manual deployment effort by ~60% and improving release consistency across multiple environments.
- Deployed and managed containerized microservices (.NET, Java, Node.js, Angular) on EKS and k3s using Docker, Helm, ArgoCD, and Kubernetes manifests, improving deployment consistency across development and production.
- Implemented centralized monitoring, logging, and alerting using Prometheus, Grafana, Loki, Grafana Alloy, and Slack, enabling real-time observability and proactive incident detection.
- Provisioned and version-controlled AWS infrastructure (VPC, ALB, RDS, ECR, EKS) using Terraform, enabling consistent, repeatable deployments across dev and production with zero manual console changes.
- Deployed Azure PaaS workloads (App Service, PostgreSQL Flexible Server, Static Web Apps) using Terraform and GitHub Actions for automated infrastructure delivery.
- Implemented GitOps workflows with ArgoCD across EKS and k3s clusters, achieving fully automated, auditable deployments and reducing errors from manual kubectl operations.

Cloud Administrator, B.C.M. Higher Secondary School

May 2021 – Nov 2023 | Dewas

- Managed AWS and Azure environments (VMs, hardware, networking, IAM/RBAC) for computer labs and academic infrastructure.
- Configured VPCs, subnets, and security groups; deployed and maintained web applications and database systems.
- Automated routine administrative tasks using PowerShell and Bash scripts, reducing manual effort in user provisioning, system maintenance, and reporting.

System Administrator, B.C.M. Prominent School

July 2016 – April 2021 | Dewas

- Managed Windows/Linux servers, DNS, DHCP, and Active Directory; automated sysadmin tasks via Bash scripts.

Earlier roles

2003 – 2016

Technical Support Engineer L2, Group Leader L1, Computer Operator - system troubleshooting, OS support, and IT operations.

KEY PROJECTS (DEVOPS PORTFOLIO)

Emart DevOps Platform, Microservices, Kubernetes (k3s), GitOps, Observability

github.com/josephmj0303/emart-devops-platform [↗](#)

- Deployed Node.js, Java, Angular microservices on k3s using Docker and Kubernetes manifests.
- GitHub Actions CI pipelines and ArgoCD-based GitOps deployments.
- Integrated Prometheus + Grafana for observability and Trivy for container security scanning.

VProfile GitOps EKS Platform, AWS EKS, ArgoCD, Terraform, GitHub Actions, Helm, ECR, Slack

[josephmj0303/vprofile-app](https://github.com/josephmj0303/vprofile-app) [↗](#)

- Built a production-grade GitOps platform on AWS EKS using Terraform, ArgoCD, Helm, and GitHub Actions with separate repositories for infrastructure and application delivery.
- Automated CI/CD pipelines to build, scan, tag, and publish Docker images to Amazon ECR, enabling GitOps-based deployments through ArgoCD.
- Implemented AWS Load Balancer Controller, IRSA, SonarCloud quality gates, and Slack notifications to improve security, reliability, and deployment visibility.

AWS EKS .NET Microservices Platform, AWS EKS, Terraform, .NET Core, Prometheus, Grafana

github.com/josephmj0303/aws-eks-dotnet-microservices-platform [↗](#)

- Containerised .NET microservices on EKS; Terraform-provisioned VPC, RDS PostgreSQL, EKS cluster.
- ALB/NGINX Ingress for external traffic routing; GitHub Actions CI/CD for automated build and deploy.
- Prometheus + Grafana integrated for cluster and application-level monitoring.

Jenkins + SonarQube + Nexus CI Pipeline, Jenkins, SonarQube, Nexus Repository, Slack

github.com/josephmj0303/jenkins-sonarqube-nexus-ci [↗](#)

- Production-style CI: automated build, SonarQube quality gate, Nexus artifact publish, Slack alert.
- Quality gates enforce code coverage thresholds and block deployments on vulnerability failures.
- Nexus Repository Manager configured for versioned artifact storage and reuse across pipelines.

Monitoring & Observability Stack, Prometheus, Grafana, Loki, Grafana Alloy, Python Flask

github.com/josephmj0303/monitoring-and-observability [↗](#)

- Centralized metrics collection, log aggregation, and observability for a Python Flask application using Prometheus, Loki, Grafana, and Grafana Alloy.
- Slack-integrated alerting for proactive monitoring and incident response.
- Custom Grafana dashboards providing real-time insights into application and infrastructure health.

AWS Cloud-Native E-Commerce Platform, AWS, EC2, ALB, CloudFront, RDS, Terraform

github.com/josephmj0303/aws-cloud-native-ecommerce-platform [↗](#)

- Cloud-native e-commerce application on AWS using EC2, Application Load Balancer, CloudFront CDN, and RDS PostgreSQL.
- Full Terraform IaC for AWS infrastructure; GitHub Actions CI/CD for zero-touch deployments.
- VPC with public/private subnets, security groups, and NAT gateway for secure network design.

Azure DevOps E-Commerce Platform, Azure PaaS, Terraform, GitHub Actions

github.com/josephmj0303/ecommerce-azure-devops-platform [↗](#)

- Migrated production e-commerce from VPS (AlmaLinux + PostgreSQL) to Azure PaaS.
- Azure App Service, PostgreSQL Flexible Server, and Static Web Apps provisioned via Terraform.
- GitHub Actions pipeline for automated build, test, and release to Azure environments.

CERTIFICATIONS & TRAINING

- AWS DevOps with Projects (Course) - Udemy
- VMware vSphere ESXi & vCenter Administration (Course) - Udemy
- Azure Administrator (Training Program) - Pragathi Technologies
- Computer Hardware & Networking (Certification) - Jetking

EDUCATION

B. Sc., St. Mary's College, Sulthan Bathery

2003