

Kiren Jayaprakash

Devops Engineer

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SUMMARY

DevOps Engineer with 1+ year of hands-on experience owning production infrastructure and CI/CD pipelines for enterprise and customer-facing platforms serving 1,000–5,000+ users. Strong expertise in AWS, Azure DevOps, Docker, ECS, Kubernetes, Infrastructure as Code, cloud security, and observability. Proven track record of eliminating manual deployments, improving release security, optimizing cloud costs, and managing production environments end-to-end, including architecture design, client communication, and incident ownership.

PROFESSIONAL EXPERIENCE

Associate DevOps Engineer, 4Labs Technologies

07/2025 – Present
Trivandrum, India

- Owned end-to-end production DevOps operations including architecture design, CI/CD automation, cloud configuration, cost optimization, and client coordination.
- Designed and implemented CI/CD pipelines using Azure DevOps and Jenkins, replacing manual deployments and significantly reducing deployment effort and human error.
- Transitioned applications from manual deployment workflows to automated pipelines, improving deployment consistency, security, and rollback reliability.
- Implemented blue-green deployment strategies, enabling zero-downtime releases across production environments.
- Deployed and managed Dockerized applications on AWS ECS and EC2, supporting enterprise workloads with 5,000+ active users.
- Designed secure AWS network architectures including VPCs, public/private subnets, NAT Gateways, and Bastion Hosts, enforcing private-subnet-only production access.
- Led security hardening initiatives, including:
 - SSH access restriction and root login disablement
 - Docker image hardening and vulnerability-aware pipelines
 - IAM least-privilege enforcement
- Implemented centralized observability and alerting using Prometheus, Grafana, Loki, and Promtail, improving system visibility and proactive issue detection.
- Took full ownership of production configurations and incidents, including root-cause analysis, remediation, and long-term fixes.
- Created architecture diagrams, cost comparison charts, CI/CD flow documentation, and operational runbooks, improving internal clarity and client confidence.

DevOps Engineer Intern, 4Labs Technologies

01/2025 – 07/2025

Trivandrum, India

- Assisted in building production ready AWS infrastructure and CI/CD pipelines for live client projects.
- Integrated Azure DevOps pipelines with AWS services including EC2, ECS, ECR, RDS, and VPC networking.
- Supported multi-environment setups (Dev, UAT, Prod) with clear isolation and deployment controls.
- Gained hands-on experience in production deployments, monitoring, and container orchestration under real-world constraints.

EDUCATION

Certification Course - Networking & Cloud, Soften Technologies

2023 – 2024

Bachelor of Computer Applications (BCA), SAS SYC. KonniSAS SYC

06/2019 – 04/2022

Konni

TECNICAL SKILLS

Cloud Platforms

AWS, AZURE, DIGITALOCEAN, MILESWEB

Containers & Orchestration

Docker, Docker Compose, Kubernetes, Amazon EKS, Amazon ECS

Monitoring & Observability

Prometheus, Grafana, Loki, Promtail, Alerting, Metrics

Databases

MongoDB, MySQL, Postgresql, Amazon RDS

CI/CD & Automation

Azure DevOps Pipelines, Jenkins, Blue-Green Deployment, Sanity & Security Pipelines, GITLABS CI/CD

Infrastructure as Code

Terraform, Cloud Formation

Security

Docker Image Hardening,SYNK,SONARCUBE, TRIVY,GITLEAKS SSH Hardening, Private Subnets, Vulnerability Scanning, Least-Privilege IAM

Operating Systems & Scripting

Linux, BASH, Python

KEY PROJECTS & INTERNAL INITIATIVES

RMS Internal Platform - DevOps Architecture & Automation

- Built CI/CD pipelines with blue-green deployment to support frequent internal releases.
- Implemented sanity and security pipelines, improving early vulnerability detection and preventing insecure releases.
- Built a multi-tier architecture supporting application, database, and monitoring layers.
- Applied Docker security hardening practices, including minimal base images and controlled runtime permissions.
- Implemented a full observability stack using Prometheus, Grafana, Loki, and Promtail.
- Deployed a full observability stack, monitoring system health, API request patterns, and abnormal behavior.

Manpower Supply Platform Cloud Architecture (Client Project)

- Architected scalable, secure AWS infrastructure for a platform serving 1,000–5,000 users with variable traffic patterns.
- Designed containerized workloads and networking to handle unpredictable load while controlling infrastructure cost.
- Focused on reliability, security, and operational efficiency, ensuring stable application behavior during traffic spikes.

Orange Project - Enterprise Application Deployment

- Designed and managed enterprise-grade AWS ECS infrastructure supporting 5,000+ users running Odoo-based workloads.
- Implemented automated CI/CD pipelines, replacing manual deployments and significantly increasing release safety and repeatability.
- Managed Dev, UAT, and Production environments with strict isolation.
- Configured and maintained Amazon RDS for high availability and production reliability.

4Labs Technologies Website - AWS Migration

- Migrated corporate website to AWS Lightsail, achieving measurable infrastructure cost savings compared to previous hosting.
- Implemented HTTPS, security hardening, and access controls.
- Took full ownership of ongoing monitoring, stability, and maintenance.

COCHIN INTERNATIONAL AIRPORT LIMITED (CIAL) - ENVIRONMENT & CI/CD IMPLEMENTATION

- **Designed and deployed a self-hosted GitLab platform on a Linux server**, including repository management, GitLab Runner configuration, and secure access controls for enterprise use.
- **Architected and implemented end-to-end CI/CD pipelines across DEV, STAGING, and PRODUCTION environments**, enabling automated build, test, and deployment workflows with strict environment isolation.
- **Implemented Linux-based application deployments using Docker**, ensuring consistent runtime environments, containerized services, and repeatable release processes.
- **Automated Windows Server application deployments using NSSM**, enabling reliable background service management for non-containerized applications.
- **Managed Windows-based web application deployments using Apache**, including service configuration, artifact delivery, and environment-specific deployment strategies.
- **Standardized multi-environment deployment pipelines**, ensuring branch-based triggers, controlled releases, rollback safety, and minimal manual intervention.
- **Performed Logical Volume Manager (LVM) expansion on the GitLab Linux server**, safely extending storage capacity without service downtime and validating filesystem integrity post-resize.
- **Optimized deployment reliability and operational stability** by integrating environment-specific configurations, logging, and deployment verification steps.

CERTIFICATIONS

AWS Certified Solutions

Architect Associate

Amazon Web Services (AWS),

Date issued: February 08, 2023

Expires: February 08, 2026

PERSONAL PROJECTS

Cloud-Native Monitoring Application

- Developed a Python-based system to monitor CPU and memory usage.
- Containerized the application using Docker and pushed images to AWS ECR via Python (Boto3).
- Deployed the application using Kubernetes deployments and services.

Automatic GPS Toll Collection System (Academic Project)

- Built a full-stack application using HTML, CSS, JavaScript, Django, and MySQL
- The Project Automatic GPS Toll Collection System has been created with the intention of providing a user with an application that will suffice all needs for the details and other updates of the toll.

SOFT SKILLS

- Problem Solving
- Communication
- Highly Organized
- Time Management
- Collaboration
- Quick Learner

LANGUAGES

- English
- Hindi
- Malayalam