

# Periyasamy K

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## Professional Summary

DevOps engineer with 2+ years of experience supporting cloud-native production systems on AWS and hands-on experience with CI/CD automation using Jenkins and Build-Kite, and proven ability to monitor, troubleshoot, and resolve production issues using Datadog, CloudWatch, and PagerDuty. Strong exposure to containerization using Docker and orchestration using Kubernetes. Worked closely with engineering and reliability teams to improve deployment reliability, operational efficiency, and cloud cost optimization.

## Work Experience

### iOPEX Technologies

Nov 2023 - Oct 2025

*System Engineer*

*Chennai*

- Monitored and supported large-scale CI/CD and data processing pipelines orchestrated using Jenkins, Buildkite, and Apache Airflow, rapidly resolving failures to ensure continuous and reliable pipeline execution.
- Monitored large-scale big data ETL pipelines scheduled on Apache Airflow, promptly handling task failures to ensure uninterrupted data processing.
- Integrated PagerDuty and Datadog with Buildkite to monitor daily deployment pipelines, enabling automatic failure detection and auto-recovery, reducing downtime.
- Automated CI/CD pipelines using Jenkins for non-critical workflows and implemented daily validation of data availability in S3 buckets to ensure data integrity.
- Collaborated closely with DevOps, SRE, and Data Engineering teams to manage AWS resources effectively, driving cost optimization and seamless integration of new pipeline flows.
- Managed and resolved Jira tickets related to infrastructure, CI/CD pipelines, and production deployments within defined SLAs.
- Troubleshoot EC2, AWS EMR and Batch job failures, resolving issues caused by spot instance interruptions, instance fleet failures, and out-of-memory (OOM) errors.
- Executed Terraform plans to provision and tear down cloud infrastructure using predefined IaC configurations
- Maintained incident response times under one minute, ensuring rapid resolution and minimal impact on production environments.
- Documented Jenkins job flow creation and Slack integration to automate notifications for data availability validation on S3 buckets after Airflow pipeline completion, enabling proactive team alerts and reducing manual checks.
- Delivered high throughput data pipelines with Python and dimensional modeling, meeting SLAs and earning Star Performer recognition for three consecutive quarters

### Persistent Systems Limited

Mar 2023 - Sep 2023

*L1 Support Consultant*

*Bengaluru*

- Provisioned and decommissioned Amazon WorkSpaces based on user requests, ensuring timely and accurate delivery of virtual desktops.
- Resolved common authentication and audio issues for end-users, improving user experience and minimizing downtime.
- Created and managed AWS Workspace directories, images, and bundles with updated applications and software to support secure and efficient remote access.
- Collaborated with technical support teams via WebEx and Zoom to troubleshoot and resolve user issues in real-time, reducing resolution time and improving user satisfaction
- Documented troubleshooting procedures and solutions to build a knowledge base for consistent issue resolution.
- Managed ITSM tickets adhering to SLA requirements, ensuring non-critical issues were resolved within 5 days and critical issues within 2 days.

## Education

### Don Bosco College - Dharmapuri

Jun 2018 - Apr 2020

*Master of Science*

*Dharmapuri*

### Don Bosco College - Dharmapuri

Jun 2015 - Apr 2018

*Bachelor of Science*

*Dharmapuri*

## Technical Skills

- **Cloud & Infrastructure:** AWS (EC2, S3, VPC, IAM, EKS, ECS, Auto Scaling, Elastic Load Balancer, Route 53, CloudWatch, EBS), Terraform
- **Operating System:** Linux, Windows
- **Containerization & Orchestration:** Docker, Kubernetes
- **Configuration Management:** Ansible
- **CI/CD & Version Control:** Jenkins, BuildKite, Git, GitHub
- **Monitoring & Incident Management:** Datadog, Pagerduty
- **Scripting & Automation:** Python, Bash
- **Data & Storage:** PL/SQL
- **Workflow & Data Processing:** Airflow, Spark