

VIVEK RAJ

DevOps Lead

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With around 6 years of experience as a DevOps Engineer, I have a strong background in e-commerce, payment, and telecom domains. I excel in managing multi-platform IT infrastructure with a strong emphasis on security. My expertise includes AWS, Ansible, Kubernetes, Docker, Git, Prometheus for monitoring, Jenkins, and Terraform. I am skilled in scripting languages like Python and React, always adhering to security best practices. My proficiency spans cloud services, containerization and orchestration, database management, programming, version control, CI/CD, IaC, monitoring, APM, logging, security, compliance, API management, and collaboration tools.



EXPERIENCE

DevOps Lead

One97 Communications Ltd (Paytm)

04/2022 - Present Noida, India

Experienced IT leader with expertise in cloud migration, Kubernetes, CI/CD automation, risk management, and Redis.

- Led and orchestrated cross-functional projects, showcasing robust leadership and project management acumen, yielding a noteworthy 20% decrease in project completion time.
- Oversaw the seamless migration of 50+ microservices from Ali Cloud to AWS, improving scalability and cost-efficiency through automation, reducing operational costs by 25%.
- Deployed microservices on Kubernetes, optimizing system efficiency, security and implementing comprehensive monitoring, leading to a 15% increase in application uptime and reliability.
- Developed a Release Engineering UI that increased team productivity, reducing manual tasks by 30%.
- Executed APM tools and application monitoring with error-triggered alerting, yielding a remarkable 99% infrastructure uptime and a 20% decrease in downtime incidents.
- Designed and deployed a Kubernetes Operator using Custom Resource Definition (CRD) for automated HPA patching, streamlining scaling operations and improving efficiency by 25%.
- Enhanced scheduling flexibility, enabling day-of-the-week customization for task scheduling, resource name sorting, and logging for debugging and information gathering, improving resource management efficiency by 30%.
- Collaborated with stakeholders to provide risk management suggestions for automated and secure cloud environments, reducing security incidents by 15%.
- Leveraged Redis (SME) expertise to enhance data management and retrieval capabilities, resulting in a 10% improvement in data retrieval speed.
- Developed and integrated AI-powered anomaly detection algorithms into monitoring systems, proactively identifying irregularities in infrastructure and application performance, resulting in a 15% reduction in critical incidents.
- Boosted project efficiency by 10% through active cross-functional collaboration.

Senior Software Engineer(SRE)

Bharti Airtel

08/2021 - 04/2022 Gurgaon, India

Experienced professional with a proven track record at Airtel, specializing in project ownership, cost optimization, CI/CD automation, patch management, and infrastructure security.

- Conducted capacity planning for cost-effective scaling, optimizing resource allocation, which led to a 20% reduction in infrastructure costs.
- Automated software and infrastructure deployments for over 15 microservices, resulting in a 25% reduction in deployment time and operational efficiency.
- Achieved a 30% reduction in utilization by optimizing cloud costs through resource allocation and automation.
- Ensured the availability of Production and Development systems, leading to a 99.9% uptime and reduced downtime incidents.
- Focused on infrastructure security, implementing measures that reduced security incidents by 25%, enhancing system integrity.
- Demonstrated expertise in Release Engineering for efficient software deployment, reducing deployment-related issues by 15%.
- Deployed and onboarded applications on AppDynamics for comprehensive infrastructure monitoring, ensuring optimal performance and reliability while reducing incident response times by 20%.
- Enhanced system security, reducing threats by 30%.

SKILLS

Cloud Services

- AWS** - EKS, ECS, ECR, VPC, S3, IAM, EC2, Lambda, Cost explorer, Billing, Gaurdduty, CloudTrail, WAF, Opensearch, Quick-Sight, Route53, Certificate Manager, Secret Manager
- GCP** - GKE, GCR, VM, Storage, IAM, Cloud Monitoring and Cloud Logging, Apigee, VPC, Firewall
- Azure** - Compute, Virtual Networks, NSG, Azure Disks, AKS, Container Registry, Load Balancer, Storage, IAM

Containerization and Orchestration

- Docker, Kubernetes, Docker Compose, Amazon ECS, Google Kubernetes Engine (GKE)

Artifact Repository

- Docker Hub, AWS Elastic Container Registry (ECR), Google Container Registry (GCR), Nexus Repository

Database Management

- Amazon RDS, MySQL, Google Cloud SQL, MongoDB, PostgreSQL, Redis

OS & Messaging Systems

- OS** - Linux - Centos, Ubuntu, Debian
- Messaging Systems** - Kafka , RabbitMQ

Programming Skills

- Python(Flask, Django) JavaScript (React), HTML

Version Control and CICD

- Version Control** - GitLab, Bitbucket
- CICD** - Argocd, Jenkins, GitLab CI/CD, Fluxcd

Monitoring , APM and Logging

- Monitoring** - Prometheus, Grafana,
- APM** - Pinpoint, Dynatrace
- Logging** - ELK Stack (Elasticsearch, Logstash, Kibana), Loki

Security and Compliance

- SonarQube, Identity and Access Management (IAM), AWS Key Management Service (KMS), Secret Manager, AWS GuardDuty, AWS CloudTrail, Amazon VPC (Virtual Private Cloud), AWS Organizations, AWS WAF (Web Application Firewall), AWS Shield, Amazon S3 Access Control, Amazon Certificate Manager (ACM), qualys, cortex

API Management

- AWS API Gateway, Kong

IaC & Configuration Management

- Terraform, Ansible

EXPERIENCE

Site Reliability Engineer

PayU Payments Private Limited

📅 10/2018 - 08/2021 📍 Gurgaon, India

SRE expert with React UI development skills, compliance management, DR migration on Kubernetes, and Gitlab CI/CD, experienced at PayU.

- Proficient in scripting and UI development for DevOps using React, enhancing user interface and automation.
- Lead a project to develop a customized DevOps UI with roles-based authentication, improving usability and security.
- Oversaw compliance and non-compliance servers, vendor VPN, and critical systems.
- Played a key role in disaster recovery (DR) migration on Kubernetes and established a robust monitoring infrastructure.
- Introduced Gitlab CI/CD and transitioned monitoring from commercial tools to open-source solutions to enhance cost-efficiency and flexibility. Gained hands-on experience with Nginx/Apache to optimize system performance.
- Successfully migrated infrastructure from a physical data center to AWS Cloud with minimal downtime.
- Proficient in build, release, and configuration management of production systems.
- Skilled in system troubleshooting and problem-solving across various platforms and application domains.
- Proven expertise in monitoring and troubleshooting production/non- production servers to ensure high availability.
- Worked with Kubernetes on-premise and demonstrated experience with AWS security services: AWS SSO, Secrets Manager, AWS Org, CloudTrail, and Certificate Manager.
- Authored multiple playbooks for configuration management using Ansible.

AWARD

Rockstar Award (Paytm) 📅 04/2023

Rockstar Award for PG2 Infrastructure Automation and Excellent Monitoring Setup: Recognized for exceptional achievements in automating PG2 infrastructure and establishing an outstanding monitoring system, demonstrating commitment to excellence in infrastructure management and monitoring.

Paytm Payment Infinity Award (Paytm) 📅 03/2023

Demonstrated outstanding work in building Paytm Payment Infinity: Acknowledged for outstanding contributions in the development and building of Paytm Payment Infinity, showcasing dedication to excellence in payment systems and innovation.

Rockstar Award (Paytm) 📅 07/2022

Rockstar Award for PG2 Migration (Ali Cloud to AWS) and End-to-End CI/CD and Monitoring Setup: Acknowledged for exceptional contributions in leading the successful PG2 migration from Ali Cloud to AWS, while simultaneously establishing an end-to-end CI/CD pipeline and comprehensive monitoring infrastructure. Facilitated a seamless cloud migration and streamlined infrastructure management, leading to a 40% reduction in server downtime and saving over 100 hours of manual maintenance per month.

Award (Airtel) 📅 11/2021

Award for Outstanding JVM Hygiene (Automation): Recognized for exceptional contributions to JVM hygiene, achieved through automation across multiple microservices. This initiative enhanced performance, reliability, and efficiency, showcasing a commitment to excellence in infrastructure management.

Thank You Award (PayU) 📅 10/2019

Awarded for Exceptional Contribution during Big Billion Day: Recognized for setting up multiple business dashboards and creating scalable infrastructure to support high-demand scenarios during Big Billion Day, resulting in improved business performance and customer experience.

EDUCATION

B.Tech

Greater Noida Institute Of Technology

📅 08/2013 - 08/2017 📍 Greater Noida, India

PROJECTS

DevOps Custom UI

Applied across diverse industry sectors with expertise in role-based authentication, compliance management, vendor VPN, AWS infrastructure monitoring, and IT asset management, all administrable via user-friendly interfaces, driving an impressive 70% reduction in manual effort and a substantial upswing in productivity.

- Established a Roles-Based Authentication system to fortify security and access control.
- Compliance Management: Monitored compliance servers for infrastructure security.
- AWS Monitoring UI: Created a monitoring user interface for AWS EC2, RDS, ELB, and more, improving visibility into AWS resources.
- Infrastructure Approval System: Onboarded an infrastructure creation system with an approval process to ensure controlled resource provisioning.
- Security Group and Users History: Maintained a history of security group changes and user actions for auditing and security purposes.

2FA Integration with Firewall for Vendor Control

Successfully lead the integration of a robust two-factor authentication (2FA) system to enhance security and simplify vendor onboarding. This initiative resulted in better control, improved operational efficiency, and a streamlined approach to managing vendor access.

- Implemented two-factor authentication for vendor access to increase security by reducing the risk of unauthorized access by implementing two-factor authentication (2FA).
- Access Controls: Developed permissions and security controls based on roles for vendors, ensuring that appropriate permissions and security procedures are followed.
- Inefficient Onboarding: Improving the vendor onboarding process, making it easier to access company resources for vendors by streamlining and simplifying vendor

Business Metrics Customized Dashboard

Spearheaded the creation of a cutting-edge dashboard leveraging Grafana and Prometheus, enabling real-time monitoring and automated alerts; increased incident response efficiency by 50% and facilitated data-driven decision-making for the organization.

- Customized Dashboard Creation: Played a pivotal role in designing and creating a customized dashboard using Grafana and Prometheus.
- Critical Metrics Monitoring: The dashboard was tailored to monitor critical business metrics essential for decision-making.
- Implemented automated alerting, guaranteeing timely notifications of significant changes or incidents.
- The dashboard provides enhanced incident management capabilities, while the swift response to issues is facilitated through the dashboard.

PG2 Migration

Led seamless infrastructure migration to AWS, optimized performance with Kubernetes, and improved cost-efficiency

- Lead a crucial role in migrating infrastructure from Ali Cloud to AWS, ensuring a seamless transition.
- Set up monitoring for Kubernetes and deployed microservices on EKS, optimizing infrastructure efficiency.
- Resulted in enhanced infrastructure management, contributing to improved performance and cost-efficiency.