

Vignesh Devops Engineer



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Chennai



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PROFILE

Dynamic Senior DevOps Engineer with over 6 years of experience in automating, architecting, and optimizing cloud and on-premises infrastructure. Highly skilled in Terraform for Infrastructure-as-Code (IaC) and Ansible for end-to-end configuration management and environment automation. Expertise in Kubernetes, Docker, Jenkins, GitLab, GitHub Actions, and Argo CD with strong GitOps implementation. Proven success in designing scalable AWS architectures, automating CI/CD pipelines, implementing DevSecOps practices, and ensuring high availability for microservices-based applications. Adept at improving deployment efficiency, reducing manual overhead, and driving reliable, secure, and fully automated DevOps ecosystems.

EDUCATION

07/2015 – 04/2019

Villupuram

B.E.Computer Science & Engineering

University College of Engineering, villupuram

PROFESSIONAL EXPERIENCE

07/2019 – 08/2024

Chennai

Devops Engineer

Cholamandalam Investment & Finance

- Designed and implemented end-to-end CI/CD pipelines, improving deployment speed and reducing manual activities across all environments.
- Automated key operational tasks using Shell, Groovy, and Python scripts for deployments, log analysis, and code comparisons.
- Provisioned and optimized AWS infrastructure (EC2, RDS, DynamoDB, DocumentDB) to deliver secure and cost-efficient environments.
- Automated infrastructure creation and updates using Terraform, enabling consistent, version-controlled, and repeatable environment provisioning.
- Implemented Ansible-based configuration management to automate server setup, package installations, hardening, and Kubernetes node configuration.
- Deployed containerized microservices using Docker, Kubernetes, and Helm for scalable and consistent application rollouts.
- Implemented centralized monitoring and logging with Prometheus, Grafana, Loki, and CloudWatch for complete system observability.
- Integrated SonarQube and Nexus to enforce DevSecOps practices, ensuring continuous code quality and secure dependency management.
- Optimized database performance across RDS, DynamoDB, and DocumentDB through advanced tuning and configuration.
- Strengthened cloud security by configuring IAM policies, Secrets Manager, and KMS for controlled and encrypted access.
- Led the migration from monolithic applications to microservices to improve scalability, modularity, and resilience.
- Integrated TruffleHog for secret detection and Trivy for vulnerability scanning to ensure secure pipelines and image integrity.

07/2019 – 08/2024

Chennai

Jira Administrator

Cholamandalam Investment & Finance

- Maintained and optimized JIRA workflows, permissions, and automation rules to streamline project management and improve team productivity.
- Led the migration of JIRA from on-premises to cloud, ensuring data integrity, minimal downtime, and a smooth transition for all users.
- Integrated JIRA with Jenkins, enabling automated build tracking, deployment logging, and enhanced traceability across CI/CD pipelines.
- Developed custom dashboards and reports to provide real-time visibility into project status, sprint progress, and deployment metrics.
- Conducted user training sessions and created detailed documentation to support adoption and ensure efficient use of JIRA across technical and non-technical teams.

08/2024 - Present

Chennai

Devops Engineer

Equitas Small Finance Bank

- Designed and implemented CI/CD pipelines for Spring Boot microservices, enabling smooth integration and automated deployments.
- Maintained Git version control for seamless collaboration across developers and operations teams.
- Automated build, test, and deployment workflows using Jenkins and GitHub Actions, and integrated JFrog Artifactory for efficient artifact management.
- Deployed applications on Kubernetes clusters using Helm charts for consistent and scalable configuration management.
- Managed high availability and scaling using Kubernetes HPA and Ingress Controller for load distribution and traffic routing.
- Implemented centralized logging and monitoring with Prometheus, Loki, and Grafana to ensure full observability and faster issue resolution.
- Integrated SonarQube for static code analysis to maintain code quality, security, and compliance.
- Configured Persistent Volumes (PV) and Persistent Volume Claims (PVC) for reliable storage and logging across microservices.
- Managed on-premises Kubernetes infrastructure, including load balancing, autoscaling, networking, and service mesh integration.
- Secured workloads using Kubernetes Secrets, RBAC, and Network Policies to restrict unauthorized access.
- Optimized Jenkins pipelines using shared libraries, parallel stages, and webhook triggers for efficient, event-driven deployments.
- Automated server configuration, deployments, and environment provisioning using Ansible for consistent and repeatable setups.
- Provisioned and managed cloud/on-prem infrastructure using Terraform, enabling Infrastructure as Code (IaC) with version-controlled, reusable modules.

SKILLS

Cloud Platforms

AWS (EC2, S3, EKS, RDS, IAM, CloudFormation, Route53, KMS, Secrets Manager)

Containers & Orchestration

Docker, Kubernetes (EKS & On-Prem), Helm, Docker Swarm

Monitoring & Logging

Prometheus, Grafana, Loki, Promtail, Clickhouse, Elk, AWS CloudWatch, Blackbox Exporter

Project & Process Management

Jira (Cloud & On-Prem), JCMA, Agile, Scrum, SSO

CI/CD Tools

Jenkins, GitHub Actions, GitLab CI/CD, CodeCommit, Argo CD, Nexus, Artifactory

Security & DevSecOps

SonarQube, Trivy, TruffleHog, OWASP ZAP, Git Secrets

Scripting Languages

Bash, Shell, Groovy

Infrastructure Tools

Terraform, Ansible

PROJECTS

D2C Platform (CholaOne) – Personal Loan Platform

- Developed and optimized Jenkins CI/CD pipelines with JIRA integration for automated builds, deployments, audit logs, and end-to-end traceability.
- Deployed Dockerized Node.js, Angular, and Python microservices to AWS EKS using Helm charts for consistent, scalable deployments.
- Implemented centralized monitoring and logging using Prometheus, Grafana, Loki, and Promtail, improving observability and incident response.
- Integrated Trivy and TruffleHog into CI workflows for container vulnerability scanning and secret detection, enhancing security compliance.
- Automated server configuration, application deployment, and environment provisioning using Ansible, ensuring repeatable and reliable operations.
- Provisioned and managed AWS infrastructure, including EKS clusters, VPC components, and networking using Terraform with reusable IaC modules.

D2C (HEHL) – Home Loan Platform

- Automated event-driven workflows with AWS Step Functions and Shell, reducing operational costs.
- Integrated SBOM scanning and OWASP ZAP (DAST) into CI/CD pipelines.
- Configured Prometheus on EBS for long-term metrics retention with Slack alerting .

Gallop – Salesforce CRM Platform

- Automated Salesforce deployments via CLI and Groovy-based Jenkins pipelines.
- Enforced code quality checks using Salesforce Scanner and SonarQube.
- Added JIRA-based validations for controlled merges and deployments.

EDLS – Enterprise Data Lake Solution

- Automated data ingestion to Redshift via AWS Glue, DMS, and Step Functions.
- Designed secure IAM/KMS policies for encrypted access and audit logging.
- Integrated PowerBI dashboards with S3 datasets for region-based reporting.

ESB Spring Boot Middleware

- Installed, configured, and managed Kubernetes clusters to support high-availability Spring Boot microservices and production-grade workloads.
- Built CI/CD pipelines using Jenkins and GitLab, automating build, test, security scans, and multi-environment deployments.
- Containerized Spring Boot applications with Docker and deployed them using Helm for consistent configuration and rollout strategies.
- Integrated SonarQube for code quality, coverage, and security checks; managed secure image storage and CI image workflows using Harbor.
- Implemented GitOps workflows with ArgoCD, enabling automated deployments, rollback mechanisms, and declarative environment sync.
- Optimized Kubernetes resources, including HPA, resource limits, secrets, config maps, and node allocations for reliability and performance.
- Automated JIRA workflows and connected them with Jenkins to enable deployment tracking, ticket updates, and reduced manual operations.
- Used Ansible to automate cluster setup, configuration management, service deployments, and operational tasks across environments.
- Provisioned and managed on-prem and cloud infrastructure using Terraform, ensuring consistent, version-controlled, and scalable IaC deployments.

DECLARATION

I hereby declare that all the particular information mentioned above in the resume is correct to the best of my knowledge and belief.