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VJ SAIRAM

[AWS Certified Developer – Associate](#)
[AWS Certified Solutions Architect – Associate](#)

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Highly dedicated, Cloud enthusiastic team player, technically astute individual around 9 years' experience in DevOps and Automation, Adept at melding operations, implementation of fully automated Continuous Integration and Build/Release engineering, Ansible for configuration management, Terraform for IAC and AWS for cloud computing services using best practices.

TECHNICAL SKILLS

DevOps : Jenkins, Ansible, Terraform, AppScan, ELK, Nagios, Docker, Kubernetes, JFrog, GIT, Helm

AWS : Compute, Storage, Networking, Developer Tools, Management, Security, Identity, Compliance

Programming and Scripting : Java, Python, Groovy, Shell, PowerShell, Selenium WebDriver, JMeter.

Server and Database systems : Nginx, Tomcat, WebLogic, WebSphere, Oracle, PostgreSQL, NoSQL, RHEL, CentOS, Windows.

Others : ConcourseCI, GitLab CI, Bitbucket, JIRA, Liquibase, New Relic, Prometheus, Nexus

PROFESSIONAL EXPERIENCE

Employer – SingTel (Singapore)

Designation – DevOps Lead

Duration – Feb 2019 – Present

Client – SingTel, Singapore

- Designed and implemented **fully automated build server management**, monitoring and deployment solutions. Automated the manual Kubernetes deployment through Helm, enabling complete automated CI/CD process for faster and effective Deployments.
- Proven experience in handling large infrastructure and distributed systems, **reduced** number of running instances by about **40%** and monthly EC2 running **costs up to 30% per month** through Kubernetes. Used Prometheus-operator & Grafana for monitoring.
- Evangelized** DevOps model, Experience in Designing, Architecting and implementing highly available and scalable cloud-based web applications using AWS, utilizing Ansible/Terraform for provisioning/orchestrating and Jenkins for continuous integration.

Employer – Quinnox Solutions Pte Ltd (Singapore)

Designation – System Engineer (DevOps)

Duration – Oct 2018 – Feb 2019

Client – Equinix, Inc. Singapore

- Expertise in creating **Kubernetes cluster with CloudFormation** templates and deploy them in AWS environment. **Developed Kubernetes monitoring** with Prometheus for Cluster visibility and capacity planning, Trigger alerts and notification.
- Worked with Application team to support Application Migration Projects - Installation, Configuration, Administration and Support for Linux servers, **reduced the provisioning time down by 50%**, using Ansible, streamlining operational procedures.
- Reduced duplicate effort, built unified compute platform using **custom Helm charts** for hybrid-cloud private network. Experience in **migrating existing infrastructure** into Amazon Web Services cloud utilizing AWS Server Migration Service (SMS).

Employer – Encora Technologies Pte Ltd (Singapore)

Designation – DevOps Consultant

Duration – Jun 2017 – Aug 2018

Client – Standard Chartered Singapore

- Handled **70+ different bank applications**, eased the use of DevOps platform through Jenkins as Infrastructure as Code, one click CI and CD using pipeline scripts, Groovy wrappers, **upstream/downstream** job configurations and DSL scripts.
- Implemented fully automated build management, monitoring and deployment by using **Ansible playbooks** and modules.
- Extensively worked on AWS services like EC2, VPC, IAM, ELB, EMR, ECS, Auto Scaling, S3, CloudFront, Elastic Beanstalk, Lambda, ElasticCache, Route53, CloudWatch, CloudFormation, DynamoDB, SNS, SQS, SES, Lambda, Cognito IAM.

- Increased fault tolerance and improved performance by adding **anti-affinity rules** to all our major Kubernetes deployments to spread the pods out across nodes automatically. **Monitored alarms and notifications** for EC2 hosts using CloudWatch.
- Used **multi-stage docker builds**, decoupled applications, minimized the number of layers and created golden base images. Developed an Ansible module to **deploy Helm Chart to Kubernetes clusters** through Jenkins and Anchore for image scanning.
- Integrated **Cobertura** - code coverage, **SonarQube** - code quality analysis, **Appscan** - Security and Vulnerability Testing.
- Installed, Configured, Managed Monitoring Tools - **DataDog, CloudWatch, ELK** for Resource Monitoring, Network Monitoring & Log Trace Analysis. Created DevOps Metrics Dashboard for Telemetry using **Helm, Kubernetes, Kafka, Prometheus & Grafana**.

Employer – Softcrylic Technology Solutions (Chennai & USA)
Designation – Technical Lead-DevOps

Duration – Mar 2013 – May 2017
Client – PurchasingPower LLC

- Strong DevOps expertise in **developing plays, playbooks, workflows in Ansible** to manage configuration of Linux based systems. Expertise in writing Ansible Playbooks from scratch using YAML functions and utilizing setup and automate the CI/CD pipeline.
- **Documented** the go-live procedures, enabled stable baseline with flexible scaling in AWS, while keeping the costs at a minimum.
- Built a CI/CD pipeline on AWS with CodePipeline & CodeBuild for Kubernetes projects. **Built a Resilient Architecture and Repeatable Infrastructure**, designed roles and groups for users and resources using AWS IAM and managed **Security Groups**.
- Repository management for Maven, Gradle and NPM builds to share snapshots and releases of artifacts using **JFrog**.
- Integrated iOS and android App Testing (Functional) with **AWS Device Farm** and Jenkins for device testing into CI workflow.
- Worked on **Image processing serverless architecture** (Lambda, API gateway, S3 buckets) to analyse customer documents.
- **Eased Developer onboarding process**, Experience in Blue/green deployment strategy by creating new applications, identical to the existing production environment using CloudFormation templates & Route53 weighted record sets to redirect traffic.

Employer – Cognizant Technology Solutions (Chennai)
Designation – Programmer Analyst

Duration – Oct 2010 – Feb 2012
Client – Lloyds Bank

- Automated **Java Framework (Pega)**, includes **300+ test cases** in Functional Testing; achieved 70% test coverage and performed load testing using Jmeter, increased efficiency by 20% using Sikuli for Oracle App Automation.
- Monitored Network & Server Performance (CPU & Memory Utilization, Data store) using **New Relic** Monitoring during the production deployments and peak hours. Expert in **Shell, Groovy and Python scripts** to automate most of the manual processes.
- Administered and Troubleshooted Linux servers for several functions in both development and production during load testing and for log analysis. **Automated REST API calls using SOAPUI** and Regression Testing with Selenium to test Back End Services.
- Took sole responsibility of distributed performance testing and **automated the JMeter scripts** and analysed the **root causes** of technical issues and **performance bottlenecks using Appdynamics**, helped in getting greater visibility on the system outcomes.

Side Projects –

- Developed scraping project bringing Serverless to Microservice, resources managed by **AWS Fargate**, provisioned by Terraform.
- Developed **ChatBots** using Amazon Lex and VoiceBots using Alexa.

ACADEMIC PROFILE

- Post Graduate Diploma in International Business, Symbiosis Center for Distance Learning, 2010-12, First class.
- B.Tech in Information Technology, St.Peter's Engineering College, 2006-10, First class.