**Kalyan B**



**Sr. DevOps Engineer**

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**Professional Summary:**

* DevOps Engineer and IT developer with 8 years of hands-on experience in architecting/automating and optimizing mission critical deployments over large infrastructure, provisioning cloud resources, handling transitions, developing internal web applications and release activities.
* Experience with **GitLab** and **GitHub** for source control and repository management.
* Experience in **Bitbucket** upgrade and maven build tool upgrade.
* Good Experience in setting up Webhooks in **Bitbucket** to trigger Jenkins automatic builds.
* Experience with Cloud Formation and Terraform templates for Infrastructure as code services on **AWS**.
* Strong experience in migrating Services from On-premises to **AWS Cloud Environments**, collaborate with development and QA teams to maintain high-quality deployment.
* Experience with **Microsoft Azure Cloud services**, Storage Accounts and Virtual Networks.
* Expertise in implementation of DevOps practices with **Azure** DevOps in any kind of projects which are Development, Infrastructure and Automation.
* Experience in migrating Databases to **GCP** using wide range of **GCP** tools.
* Knowledge in working on **Docker** virtualization and container technology.
* Experience in Creating **Docker** files, Performing automation tasks in **Docker Hub**, **Docker Engine**, **Docker Machine** and **Docker Registry**.
* Experience in implementing the automation of the deployments of all microservices using Jenkins files, Ansible and Helm to the Kubernetes Stack.
* Knowledge in using **Kubernetes** and **Docker** to build, test and deploy in the **CI/CD** systems runtime environment. Knowledge in developing and deploying **Kubernetes clusters** on different cloud providers, including **AWS(EKS)** by using Terraform.
* Experience in implementing Cloud Firewall rules on Compute Engine to allow IP traffic to **GKE Kubernetes**.
* Hands on experience in using **Datadog** and examining Kubernetes POD resource stats.
* Experience in deploying a **Prometheus** ConfigMap on OCP by building monitoring stack for user-defined applications.
* Good Knowledge in monitoring servers, switches and ports using **Nagios** monitoring tool and assisted internal users of **Splunk** in designing and maintaining production quality dashboards.
* Proficient in developing **Ansible** Playbooks to make server management jobs easier and more automated.
* Experience with automation and configuration management technologies which includes **Chef** and **Ansible** for managing Amazon Web Services (AWS) infrastructure.
* Implemented a Continuous Delivery infrastructure with **Jenkins**, **CHEF**, and **Maven** in a Linux environment.
* Experience with **Chef**, **Puppet** and **Ansible** Configuration Management technologies for provisioning various environments.
* Experience with AWS code deploying on automating CI and CD pipeline with **AWS Code Pipeline**, **Jenkins.**
* Experience in Built, test and deploy with **Azure pipeline** using CI/CD that works with any language, platform or cloud.
* Knowledge in setting up **JFrog Artifactory** management repositories to preserve versioned maven artifacts for deployments.
* Proficient in developing a configuration management plan in an integrated environment by utilizing **JIRA.**
* Experience in monitoring **JIRA** for updating and tracking of tasks and defects.
* Expertise in REST API development using **SQL, Oracle (Relational) and NoSQL** databases which are **MySQL** and **MongoDB**.
* Good Experience in working with **PHP**.
* Experience with a variety of **CI tools** including **Jenkins**, **Hudson** and **Sona type Nexus** to implement Continuous Integration and Continuous Deployment.
* Knowledge with **bash (shell) and Perl** as well as experience with **Python** programming.
* Good knowledge with **QTP, HP Load Runner** and **Selenium** Testing Tools.
* Strong experience with regression testing and unit testing, including the use of technologies which are **JUnit**.
* Good experience in using **Maven, Gradle** and **ANT** for build automation.
* Good knowledge in constructing **Java/J2EE** applications utilizing IDE tools which are **Eclipse, RAD and NetBeans.**

# Skill Set:

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| --- | --- |
| Cloud Environments | AWS, Azure, GCP. |
| AWS Services | EC2, ELB, VPC, RDS, AMI, IAM, Redshift, Cloud Formation, S3, Cloud Watch, Cloud Trial, EBS, Route 53. |
| Containerization Tools | Docker, Kubernetes, EKS. |
| Configuration Management Tools | Chef, Puppet, Ansible. |
| Monitoring Tools | Splunk, Nagios, ELK, Datadog, AppDynamics, Grafana. |
| Databases | Oracle, MySQL, MongoDB, SQL Server, MS SQL, NOSQL. |
| Backup Tools | Veritas/Symantec NetBackup. |
| Build Tools | ANT, MAVEN, Gradle, Hudson, Jenkins, XL release and XL deploy. |
| Version Control Tools | Subversion (SVN), GIT, GIT Hub, Bitbucket. |
| Web Servers | Apache, Tomcat, Web Sphere, JBOSS, WebLogic. |
| Languages/Scripts | C, C#, JAVA, Python, HTML, Shell, Bash, PHP, Python. |
| SDLC | Agile, Scrum. |
| Web Technologies | HTML, CSS, Java Script, jQuery, JUnit, Bootstrap, XML, JSON, XSD, XSL, XPATH. |
| Operating Systems | Red Hat, Ubuntu, Linux & Windows. |
| Ticketing Tools | JIRA, Service Now. |

# Work Experience:

**Walmart, Sunnyvale, California**

**Role: Sr. DevOps Engineer Sep 2022 - Present**

**Responsibilities:**

* Worked on **GCP** **Cloud Storage services, Databases, Cloud DNS, Cloud router, Cloud VPN, Cloud Logging**, **Cloud Registry**, **Dataflow, Data Proc** and **Big Query Migration Service.**
* Worked on **Airflow** performance by handling the **DAGs** and task instances.
* Handled multiple data pipelines to maintain the DAG in Airflow.
* Created **metrics in GCP** to check on the instance performance and utilization over the tasks.
* Developed **Python Scripts** for report generation and vulnerability checks in the report.
* Worked on dataset migration and analyze process in GCP from dev using **Big Query Migration service**.
* Experience in **Shell scripting** for automation of various process.
* Designed and implemented Rest API’s using various data formats (JSON/XML) to provide interface and connectivity among the application.
* Worked with analyzing the API end points for data transfer and data flow along with secure deployment of the API running on the GCP using **API gateway**.
* Working on supporting different teams to resolve major GCP issues occurring during data migration and access level for working with different GCP services.
* Migrated Data sets from dev to prod in GCP Big Query using Jenkins.
* Handled **Cloud logs** for enhancing the application performance and task effectiveness.
* Worked on **Cloud Registry** for handling the User level permissions and grant access for higher level requirement.
* Worked with **Data Proc** to handle large data processing among the GCP using **PySpark and Hadoop**.

**New York State Education Department May 2021- Sep 2022**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Worked on **Cloud Formation** in **AWS** for maintaining and creating clusters.
* Worked on **Dynamo DB** for creating tables for a database for processing and retrieving data.
* Working with version control tools which are **Bitbucket** and **GIT** for cloning, mirroring and pushing the changes, created web-hook in Bitbucket for Jenkins.
* Extensively worked on developing pipelines for C# web application with visual code builds.
* Configuring and launching **EC2 instances** in the cloud using **AWS** resources including VPCs, Subnets, Route tables and Internet Gateways, as well as knowledge of VPC peering across multiple VPCs.
* Migrating legacy applications to **Microsoft Azure Cloud PaaS** by setting up CI/CD pipelines.
* Designing enterprise solutions on the **Microsoft cloud** using modern cloud architectural patterns.
* Managing **Azure** Infrastructure Web Roles, Worker Roles, VM Role, SQL, Storage, AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using PowerShell and Portal.
* Working with security and AD teams on image and **Azure** environment security concerns. Participating in backlog refinements for creating upcoming sprint scope.
* Developing **Terraform scripts** to generate customized VPCs, subnets and all other required resources utilizing Terragrunt to keep the state in S3.
* Implementing fault-tolerant, load-balanced, highly available systems that are to be ready for production.

Building cloud infrastructure in AWS using **Terraform** and configured backends, used functions and git hub actions to streamline and automate Terraform plan.

* Worked with automation tasks on numerous **Docker** components which are **Docker Containers** and Orchestration Tools: Hub, **Docker Engine**, **Docker Machine**, Compose and **Docker Registry**.
* Built and deployed **Docker containers** to breakdown a monolithic app into microservices, enhancing development workflow, scalability and speed.
* Working with security and AD teams on image and **Azure** environment security concerns. Participating in backlog refinements for creating upcoming sprint scope.
* Working with the Development and Testing teams to set up a build schedule, run the builds and debug any issues.
* Managed **Kubernetes** charts using **Helm.**
* Worked on monitoring and visualization technologies including **Prometheus** and **Grafana**, as well as monitoring Kubernetes pod metrics on a regular basis.
* Worked on App gateway, Firewall, Traffic manager and other networking components.
* Performing application deployments on **Kubernetes** cluster.
* Utilized OpenShift for container orchestration with **Kubernetes** container storage, automation to enhance container platform multi-tenancy and worked with Kubernetes architecture and design - troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* Creating Ansible roles in **YAML**, defining tasks, variables, files, handlers and templates as well as creating inventory and configuring **Ansible** files for parallel deployment to automate the Continuous Delivery process.
* Deploying builds for Dev and QA environments using **Ansible**.
* Worked on **Splunk** and **Dynatrace** for monitoring servers.
* Working of all aspects in **Jenkins**, including Plugin Management, Jenkins Security, Performance Issues, Analytics, Jenkins Scaling and integrating Code Analysis and Test Phases to complete Jenkins CI/CD pipelines.
* Written ansible playbooks to deploy ELK stack using single click deployment.
* Migrated On premise data to Confidential Redshift data warehouse.
* Responsible for generating artifacts using **Maven** that are kept in the Nexus binary repository and distributed with Ansible.
* Worked with **Ansible** to deploy builds in development, testing, and production environments.
* Worked on **Jenkins** and AWS cloud-native services including code commit, code build, code pipeline, and code deploy in designing and managing CI/CD pipelines.
* Implemented a Continuous Delivery infrastructure with Jenkins, **CHEF** and **Maven** in a **Linux environment**.
* Used Hints in the **SQL** statement for better performance of the **SQL** statement.
* Managed database migration from Legacy (old version) to new version **SQL Server** and from **MS SQL** to **Oracle database.**

**UPS, New Jersey**

**Role: DevOps Engineer Jan 2020-April 2021**

**Responsibilities:**

* Installed **Jenkins** for **GIT repository**, configured SCM polling for **Maven** instantaneous builds and used Ansible to deploy apps using custom ruby modules as a CI/CD process.
* Implemented a **CI/CD pipeline** with **GIT**, MS in both the cloud and on-premises.
* Built a Continuous Integration environment using **Jenkins**.
* Used **Ansible** to deploy into **AWS** by creating cloud compute instances, database by configuring Jenkins with Parameters of deployment.
* Utilized Google stack-driver to monitor the logs of both **GKE** and **GCP** instances and configured alerts from Stack- driver in particular cases.

Developed a **Jenkins** pipeline to push all microservices builds to the Docker registry which was subsequently deployed to Kubernetes, where pods were produced and managed.

* Build and architected many Data pipelines, ETL and ELT process for Data ingestion and transformation in **GCP**.
* Used **Kubernetes** to orchestrate the deployment, scaling, and management of Docker Containers on the AWS and on-prem environments.
* Using **Jenkins**, creating and maintaining AWS accounts, including infrastructure, using cloud formation, and ansible playbooks for role/policy generation.
* Designed and Implemented **CI/CD** pipelines for DB Schema maintenance.
* Developed and integrated high availability solutions for mission-critical applications in collaboration with members of the development team.
* Utilized **Jenkins** files to automate the build process, which includes building and testing using declarative scripting in **Jenkins** pipeline.
* Creating containerized and customized software using **Docker** to manage and deploy applications.
* Installed monitoring technologies including **Splunk** and **Prometheus** to examine the health of our infrastructure on a regular basis to ensure that it is not obstructing vital procedures.
* Deployed production-ready applications by using **AWS Kubernetes** service and maintained high available applications using micro service architecture.
* Create and maintain customized **JIRA** workflows depending on business needs.
* Working with ELK (Elastic Search, Log stash and Kibana) stack to develop an end-to-end transaction processing system.
* Used **Service Now** as a ticketing tool.
* Build artifacts from **JFrog Artifactory** and are deployed into an Apache Tomcat app server using PowerShell Scripts.
* Developed advanced **JIRA** workflows, permission scheme and notification schemes.
* Developed an **Ansible** custom module in Python to automate infrastructure and worked on designing playbooks for deploying services on AWS using automated technologies including Jenkins.
* Designed and architecture the DR (Disaster Recovery) and HA systems for our infrastructure and implemented them using Route53.
* Creating **SQL** stored procedures, functions and packages.
* Responsible for writing **Puppet** Manifests to provision sophisticated multi-node systems that use the Server-Agent model and are deployed to application servers which are **WebSphere, JBoss and Apache Tomcat.**
* Worked on automation and backup and recovery protocols to preserve and safeguard data.

**Protonshub Technologies, India**

**Role: AWS Engineer May 2017-Dec 2019**

**Responsibilities:**

* Building infrastructure in the **AWS** cloud using **VPC**, **Subnets**, **EC2**, **IAM**, **Route53**, **S3** and **ELB.**
* Maintain highly scalable multi-tier **AWS** infrastructure spanning across multiple availability zones.
* Responsible for managing **Git** workflow, PR, branching and the whole release workflow from Dev and QA stage until production.
* Responsible for the Automation and management of the DevOps pipeline using **Jenkins**.
* Design and implement fully automated **CI/CD** using **Git/GitHub, Jenkins, Docker, Helm, Argo CD** and **Kubernetes.**
* Deployment of java application on Kubernetes on using **Maven** and **Jenkins**.
* Used **Jenkins** to automate build process.
* Wrote various data normalization jobs for new data ingest into Redshift.
* Implemented CI pipeline to build **Docker** images and push it to the image registry.
* Automate, build, and deploy artifacts from one environment to another environment.
* Used Shell scripts for my day-to-day activities and tasks automation.
* Implementation of Build and Deployment process with tools which are **Jenkins**, **GIT**, **Maven** and **Kubernetes**.
* Responsible for creating **Docker** images using **Docker files** for managing the application life cycle.
* Installing and configuring Jenkins master and nodes, also **Jenkins** backups of data and configuration.
* Perform and deploy builds for various environments including Dev, QA, Staging and Production.
* Built and deploy microservice applications using **Docker**, Docker-compose and **Kubernetes**.
* Deploy applications with high availability and scalability using **Kubernetes**.
* Configured monitoring of AWS EC2 Instances on a regular basis by using **Nagios XI**.
* Written and update documentation to outline technical design of entire project.
* Automate configuration and builds of new environments IAC and provision software.
* Create and configure virtual machines on cloud as per requirement.
* Used metrics to monitor application and infrastructure performance.
* Worked as part of DevOps Team for automation and build configuration management.

# ZenQ, India

# Role: Java Developer June 2015-April 2017

**Responsibilities:**

* Worked with various development phases of the application like Requirement gathering, Design, Analysis and Code development using SDLC methodologies.
* Involved in the planning and designing phase to gather requirements to develop business logic from the end clients to work with **Agile methodology**.
* Developed the backend **J2EE** components like **Servlets, JMS** to develop application with less complexity and high feasibility along with dynamic web pages.
* Utilized **Spring MVC framework** to implement design patterns like **IOC** (Dependency Injection)**, Spring DAO** (Data access objects)**, Data Transfer objects, Business objects,** and **ORM Mappings.**
* Used **JMS** messaging service to implement reliable communication among the modules of the application.
* Worked with **Spring MVC** design pattern developed some of the front-end business components using spring developed web flow with help of spring MVC to build any application from scratch
* Developed Restful web Services using JSON format.
* Developed **SOAP** based Web Services to integrate with the Web Application
* Mostly worked in backend mainly on java frameworks like **Spring, hibernate** for developing business logic.
* Worked on **Hibernate framework** that helped to map JAVA classes to Database tables.
* Made use of **JSON** formats for data transmission from server.
* Used **DAO design pattern** to create isolated applications.
* Created connections to database using **JDBC**.
* Worked on writing **SQL queries**, stored procedures and triggers used to store and retrieve data from database based on client-side request.
* Documented all stages of the project and generated documentation using **Java API** which is a documentation generator which helps foe easy access and identification to each stage of the project.
* Used **log4j** for logging errors in the application.
* Involved in **JUNIT** testing framework for unit testing, troubleshooting and debugging is done using JDB.
* Used **CVS, Git, GitLab** for version control.

**Vitech Systems Asia Private Limited, India**

**Role: Web-Developer July 2014-March 2015**

**Responsibilities:**

* Developed and defined the presentation layer of an application by using **HTML**, **CSS**, and **JavaScript** meeting **W3C Standards**.
* Using **JavaScript**, created a user registration and contact form, as well as browser-side validation.
* Designed banners for use on corporate client websites.
* Worked extensively with **CSS** to develop webpages that matches client’s customization requirements.
* Worked on the social networking plugins and sending mail features.
* Responsible for converting new page designs created in **Adobe Photoshop CS5** to **HTML/XHTML** by utilizing **CSS3**, **JavaScript**, and other techniques.
* Responsible for the graphic design and implementation of the company's web site, which includes navigation, **HTML** and **JavaScript** scripting, and **web graphics optimization**.
* Created cross-browser compatible and standards-compliant **CSS-based** page layouts.
* Designed banners for use on corporate client websites.
* Created the Articulate template for e-learning pages.
* Developed concepts, techniques, and story boards for e-learning presentations.
* Assigned the tasks of conducting research and gathering documents and visual references for the project.
* Responsible to produce **Flash motions**, **animation builds**, and **action scripting**.
* Worked on **Search Engine Optimization** for the websites.
* Optimized website to make it more light weight from front end by using **CSS** frame works and modern best practices.

**Education:**

**Masters in computer science**, University of Dayton, Dayton, Ohio.