**VIJAYA PUTHANA Mobile:** 07721138555

**AWS DevOps Engineer Email:** vlputhana1@gmail.com

## Personal Profile

Over **11 years** of experience in Information Technology in various roles and dedicated to **AWS** cloud infrastructure automation services and **DevOps** **Engineering** with excellent experience in Software **Integration**, **Configuration**, **Build** & **Release** management, **ETL** and Web Based application d**evelopment** for several market driven international organizations.

**Key Technical Skills**

* **4+** years proven AWS / Azure / DevOps experience.
* **2+** years of experience Release Management Processes, Coordination and Planning Process and connecting points with DevOps and CI/CD.
* In-depth knowledge of **DevOps** Management methodologies and **Production Deployment** Configurations.
* Experience with **SaaS** (Software as a Service), **PaaS** (Platform as a Service), and **IaaS** (Infrastructure as a Service) solutions.
* Experienced working in **AWS** Cloud Computing Platform and many dimensions of scalability including EC2,Lambda,EBS,S3,VPC,ELB, Route 53, AMI,SNS,SES, SQS,RDS, IAM, Auto scaling, CloudWatch, CloudFormation, Security Groups.
* Automated the periodic rehydration of **EC2** instances using **Lambda** and **Cloud Watch**.
* Highly skilled in deployment, data security and troubleshooting of the applications using AWS services.
* Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS Services with the paradigm of Infrastructure as a Code.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources and experienced with installation of AWS CLI to control various AWS services through Shell/Bash scripting.
* Excelled on creating **AMI** (AWS Machine Images) that utilizes **ELB** (Elastic Load Balancer) and **Auto Scaling**.
* Worked with **IAM** service creating new IAM users & groups, defining roles and policies and Identity providers.
* Experience in **Linux System** Administration, **Build Engineering** & **Release Management process**, including end-to- end code configuration, building binaries & deployments and entire life cycle model in Enterprise Applications.
* Acquired practical exposure with **CI/CD** tools such as **Git, Bit Bucket, Bug tracking** tool JIRA and **Jenkins to Merge** development with testing through pipelines.
* Involved heavily in setting up the **CI/CD** pipeline using **Jenkins**, **Maven**, **Nexus**, **SVN**, **GitHub**, **Bit Bucket**, **Ansible, Terraform** and **Docker** as a containerization tool.
* Mastery of build technologies like **ANT**, **Maven** for the building of deployable artifacts from source code.
* Experience with **Docker** container service. Created **Dockerized** application by creating **Docker** images from **Dockerfile**.
* Worked with Docker container infrastructure to encapsulate code into a file system with abstraction and automation.
* Monitored the servers & applications using **Nagios**.
* Managed local deployments in **Kubernetes** creating local cluster and deploying application containers.
* Automation of infrastructure using **Terraform** and **Ansible**.
* Worked in an agile development team to deliver, end-to-end continuous integration, and continuous delivery product in an open source environment using tools like **Ansible** & **Jenkins**.
* Well versed with Ansible Playbooks, Modules and Roles to automate repetitive task s, quickly deploys critical applications and proactively manages change and has worked on integrating Ansible **YAML** Scripts.
* Management of library versions and deprecated code, Design and Sequencing of automated builds and test runs and troubleshooting expertise- build failures due to dependencies, tests, etc.
* Experienced in **Agile, SDLC** and **Waterfall** software development and agile practice such as TDD, BDD, continuous integration, code review etc.
* Excellent experience in documenting and automating the build and release process, Expertise in Querying RDBMS such as Oracle, SQL Server using SQL, PL/SQL for data integrity.
* Excellent experience on **Java/J2EE** applications and the ability of developing **XML**, **HTML**, **Shell**, **Python**, **Perl** and **Bash** Scripts.
* Experience in **Project Scope**, Analysis, requirements gathering, data modelling, Effort Estimation, **ETL Design, development**, **System Testing**, **Implementation** and production support.
* Having solid experience in **Data Warehousing** solutions using **Informatica** **PowerCenter, MSBI (SSIS)**, building Data Marts and data warehouse.
* Expertise in troubleshooting the problems generated while building, deploying and in production support.

## Technical Skills

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| --- | --- |
| ***Operating systems*** | Windows Family, Unix, Linux (Ubuntu, RHEL, CentOS) |
| ***Version Control Tools*** | SVN,GIT, GitHub, Team Forge, BitBucket |
| ***Build/Config Tools*** | Jenkins, , Ansible, ANT, Maven, Dockers, Kubernetes, Terraform, Nagios |
| ***Database*** | Oracle 8i/9i/10g/11g, MS Access 7.0, SQL Server and MySQL5.0/5.1, Dynamo DB |
| ***Cloud Platform*** | AWS ( EC2, Lambda, EBS, S3, VPC, ELB, Route 53, AMI, SNS, SES, SQS, RDS,IAM, Auto Scaling, CloudWatch, CloudFormation), Microsoft Azure |
| ***Script/Programming Languages*** | Java, J2EE, JSP, Power Shell, Python, C, C++, XML, Java Script |
| ***Automation Testing Tools*** | Selenium with Cucumber Frame work, NPM |
| ***Web/App servers*** | Apache Tomcat, WebSphere Application Server 5.1/6.0/7.x, BEA’s WebLogic Application Server 8.1/9.2/10.x, JBOSS 4.x/5.x/7.1 |
| ***Bug Tracking Tools*** | Jira, ALM, HP Quality Centre |
| ***ETL and Reporting Tools*** | Informatica Power centre 7.x/8.x/9.x, SSIS, SSRS, Power BI |

## Professional Experience

**Penguin Random House UK - London, UK**  **Mar 2019 – Till Date**

**AWS / DevOps Consultant**

**Roles and Responsibilities**

* Worked alongside the development team, building and managing the development tools, including Continuous Integration systems, and automated/manual testing environments. Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Interacted with **client teams** to understand **client deployment requests**.
* Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
* Attended **sprint planning sessions** and daily sprint **stand-up meetings**. Configured application servers to deploy the code.
* Used **sub modules in the GIT** and educated users working with sub modules in GIT. Configured plug-in for the integration tools to the version control tools. Worked with the developers to configure plug-in trough **Eclipse to develop** the code.
* Responsible for writing **Hooks** and **Triggers** using Perl. Built Java application using **Maven** and Publish binaries into **Artifacts** and deploy binaries into **Web servers** using **Jenkins** and **Ansible** **Tower**.
* Created **Dockerized** application by creating **Docker** images from **Dockerfile**.
* Worked in building Object Oriented applications using Java, writing **Shell Scripts** and **Perl Scripts** on **Linux Platform** and **PowerShell** in Windows Platform.
* Created **S3 buckets**, **Managing Policies** and Utilized **S3 bucket** and **Glacier** for storage and backup of the data in **AWS**, managed bucket logins and lifecycle configurations with and without versioning.
* Design **EC2 instance** architecture to meet **high availability** application architecture and **security** parameters. Focus on **CI/CD**, promoting Enterprise Solutions to target environments with **AMI’**s.
* Configuring **Virtual Private Cloud** (VPC), **Security** **Groups** to integrate with **internet gateway** and create access through internet. Create instances of DB and web services and assign to necessary security groups.
* Develop **CloudFormation** scripts to **automate EC2 instances**, created **CloudFormation Templates**, and deployed AWS resources using it.
* Automation of infrastructure using **Terraform** and **Ansible**.
* Creating **CloudWatch** alerts for instances and using them in **Auto Scaling** launch configurations.
* Created **RDS** instances Mysql, DynamoDB using multi AZ deployment, configured **replicas**, **snapshots**, and scheduled **backups**.
* Connecting the instances EC2, DB instances and created **table space**. Creating **CloudWatch** **alerts** for instances and using them in Auto scaling launch configurations.
* Documented all post-deployment issues in a log and assist in resolving these issues where applicable, maintaining timely updates within the log. Manual and Automation process of creating branches tags and code merging.

**Environment:** AWS (EC2, RDS, S3, ELB, Route 53), Shell Scripting, Git, Maven, Jira, Ansible, Jenkins, J2EE, PowerShell, SQL, Windows Solaris, LINUX, Tomcat, SSIS, Bit Bucket, Terraform

**DXC Technology - London, UK Oct 2018 – Jan 2019**

**AWS/DevOps Engineer**

**Roles & Responsibilities**

* Developed and implemented software release management strategies for various applications as per agile process.
* Worked extensively with AWS services like EC2, S3, VPC, ELB, Auto Scaling Groups, Route 53, IAM, CloudWatch, CloudFormation, SNS, and RDS.
* Gained good experience by working with configuration management tool Ansible and CI/CD tool Jenkins.
* Synchronized AD users in an Office365 environment using by Azure Directory Sync services
* Managed Amazon redshift clusters such as launching the cluster by specifying the nodes and performing the data analysis queries.
* Set up and built AWS infrastructure with various services available by writing cloud formation templates in json.
* With the help of IAM created roles, users and groups and attached policies to provide minimum access to the resources.
* Created topics in SNS to send notifications to subscribers as per the requirement.
* Worked on the databases of the Amazon RDS and carried out functionalities for creating instances as per the requirements.
* Designed Java API to connect the Amazon S3 service to store and retrieve the media files.
* Implemented Amazon RDS multi-AZ for automatic failover and high availability at the database tier.
* Configured AWS CLI and performed necessary actions on the AWS services using shell scripting.
* Written Cron jobs to perform operations at a scheduled time.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plug-ins for the JIRA bug/issue tracker.
* Enabled Continuous Delivery through Deployment into several environments of Test, QA, Stress and Production using Jenkins.
* Involved in scrum meetings, product backlog and other scrum activities and artifacts in collaboration with the team.

**Environment**: AWS (S3, EC2, ELB, Auto Scaling Groups, CloudFormation, CloudWatch, IAM, SNS, RDS, Route 53, Elastic BeanStalk), Jenkins, Ansible, Shell/Bash scripting, Python, JIRA, GIT), Azure

**DXC Technology – Bangalore, India Apr 2017 – Sep 2018**

**AWS Cloud Consultant**

* Responsible for designing, implementing and supporting of cloud data platform using AWS services
* Manage Amazon Web Services (AWS) infrastructure with automation and orchestration tools such as CFT, Sceptre and Jenkins Pipeline
* Proficient in AWS services like VPC, EC2, S3, ELB, EMR, EFS, Storage Gateway AutoScalingGroup(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch
* Experienced in creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Managing and Maintaining Hybrid Cloud infrastructure include with AZURE and AWS environment
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Involved in writing Amazon Lambda to manage some of the AWS services.
* Used security groups, network ACL’s, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Created S3 buckets in the AWS environment to store files and configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Possess good knowledge in creating and launching EC2 instances using AMI’s of Linux, Ubuntu, RHEL, and Windows and wrote shell scripts to bootstrap instance.
* Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
* Written cloud formation templates in json to create custom VPC, subnets, NAT to ensure successful deployment of web applications for including server based and Serverless applications
* Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
* Configured AWS EFS for providing shared network storage for clustered servers
* Implemented automated security patch updates using AWS System Manager Patch Manager

**Environment:** AWS EC2, VPC, ELB, S3, EBS, RDS, AWS EMR, Route53, ELB, Cloud Watch, CloudFormation, Sceptre, AWS Auto Scaling, Lambda, GIT, SQL, Jira, AWS CLI, Unix/Linux, Shell scripting, Jenkins

**Hewlett Packard Enterprise Ltd, - Bangalore, India Nov 2015 – Mar 2017**

**Build & Release Engineer**

**Roles & Responsibilities**

* Managed integration with Confluence for release management.
* Developed and deployed JSPs, Servlets, and Java Beans using WebSphere 7.0.
* Automated the deployment of MongoDB replicas using a system center orchestrator runbook.
* Administered performance analysis for MS SQL Server and Cassandra databases.
* Incorporated the Code Quality Tools findbugs, PMD and Cobertura into Maven Projects.
* Lead various phases of Software Development Life Cycle (SDLC) Requirements analysis, Design, Development, Implementation, Testing for Enterprise applications
* Developed an application under J2EE Architecture using spring, Struts, Hibernate, Groovy, Servlets, WebLogic and Couchbase.
* Administrated Perforce and created users and provide access to them based on their roles. Written shell scripts to take automatic backup every day.
* Worked in C++ on OMVS and implemented the application in Mainframe server.
* Constructed a Restful API to manage infrastructure services using Python and Flask
* Written Make, Maven and Ant build tools for application layer modules

**Environment:** Confluence, WebSphere, MongoDB, MSSQL, AWS, Ant, Python, Perforce, Vagrant, Bamboo, DB2, C++, C#, SVN, Bugzilla, TFS, Nexus, Apache, SDLC, Gradle, Weblogic, Ruby, Bash, PowerShell, Perl, Tomcat, Splunk, NoSQL, Oracle, RedHat Linux, AIX, JBoss, Cassandra

**Hewlett Packard Global Soft Pvt Ltd - Bangalore, India Nov 2014 – Oct 2015**

**DevOps Engineer**

**Roles & Responsibilities**

* Developed and maintained Manifests, modules, playbooks using puppet, Ansible to manage infrastructure and integrating with CI / CD (Jenkins).
* Designing/implementing brand-new AWS Cloud solutions, with ability to rapidly provision AWS environments with VPC, IAM and EC2- Terraform.
* Worked in containerization using Docker and orchestration with Kubernetes .
* Performing analysis of data, with data mining & visualisation techniques.
* To convert the manual build and release process to fully automated process across all env.
* Configured Amazon CloudWatch alarms and Zabbix alerts for round the clock monitoring.
* Configuring networking protocols by making use of monitoring tools and techniques including VPC Flow.
* Closely working with business and security stakeholders to understand their requirements, and deliver a documented capability to them.
* Redesigned existing Amazon AWS infrastructure to improve security and availability, eliminate single points of failure, enhance maintainability via simplification.
* Integration with existing systems that were mandated to replace sensitive data with tokens.
* Implementation of a number of services and maintain automated deployments.
* Launching Virtual Private cloud (VPC), creating subnet in the VPC, VPC peering.
* Performed EC2 maintenance against AWS maintenance schedule to reduce and make planned outage.

**Environment:** Git, Maven, Jenkins, Docker, WebSphere, Kubernetes, Ansible, AWS

**Hewlett Packard Global Soft Ltd - Houston, US Aug 2014 – Oct 2014**

**ETL Developer**

**Roles & Responsibilities**

* Involved in requirement analysis, customer interaction for requirement clarifications.
* Involved in planning the estimates. Hence assigning the user stories to the team for development and unit testing.
* Responsible for installation of **SQL Server**, **database design**, and **create schema objects** like **tables, views and indexes and developing using SQL Server Management Studio**.
* Implementation and delivery of **MSBI platform** solutions to develop ETL, analytical, reporting on SQL server 2014 using SSIS, SSRS.
* Involved in writing in **SQL joins**, **sub queries**, **tracing** and **performance tuning** for better running of queries.
* Extensive use of **Triggers** to implement **business logic** and for **auditing** changes to **critical** **tables** in the database.
* Involved in development of **extracting**, **transforming** and **loading** (ETL), **maintain** and support the enterprise data warehouse system and corresponding marts.
* Involved in **SSIS** **performance** **tuning** using **counters**, **error handling**, **event handling**, **re-running** of failed SSIS packages using checkpoints
* Experience in **providing Logging, Error Handling by using Event Handler** and custom logging for SSIS packages.
* Experienced in SDLC life cycle for design, development and staging phases of the project with support of **Data-flow, Process Models, and E-R Diagrams**.
* Developed **customer reports and deployed** them on server **using Power BI**.
* Designed ad-hoc reports in **excel power pivot and shared them using BI** to the decision makers for strategic planning.

**Environment:** Windows, SQL Server 2012, SSIS, SSRS, Visual Studio, SSMS, Power BI, Excel, Visio.

**Hewlett Packard Global Soft Pvt Ltd., - Bangalore , India Nov 2012 – July 2014**

**Software Engineer**

**MCW (Manual Claim Website)** is a web-based world-wide application used by Sales Compensation Operations to upload manual files into system which intern process the files in parallel by enriching the source data using few logical modules and send to downstream system for purposes of Credit and Pay for sales representatives.

**Role & Responsibilities**

* Responsible for **Analysing the requirements and prepare design documents** (FSD/HLD) .
* Responsible for creating **Data Modelling** for the complete project and release management process.
* Responsible for **coordinating with offshore and onsite team** to discuss the design documents, providing technical solutions and in deployment process of web applications.
* Worked on **Informatica Power Centre tools- Designer, Repository Manager, Workflow Manager, and Workflow Monitor**. Building the **ETL architecture** and Source to Target mapping to load data into **Data warehouse**.
* Extracted the data from the **flat files and other RDBMS databases** into staging area and populated onto **Data warehouse**.
* Involved in **Performance tuning at source, target, mappings, sessions, and system levels and helping in resolving issues in production**.
* Involved in writing **UNIX scripts/Jobs** and Code reviews.
* Working closely with other members of the team to **deliver innovative solutions** to business problems.

**Environment:** Informatica 9.6, TIDAL, UNIX, Oracle 11g, TOAD, Shell Script, Java, JSP, Servlets, HTML, Java Script, ALM, Apache Tomcat, Github, Jenkins, Maven.

**Hewlett Packard Global Soft Pvt Ltd., - Bangalore, India Aug 2008 – Oct 2012**

**Java Developer**

**Reference Online System** is an internal business application using by business to dynamically change the reference data based on the data analysis done day to day. This application helps in nonstop data process and which in turn helps in improving the business process and review the data.

**Role & Responsibilities**

* Responsible to understand business requirements and analysis.
* Involved in preparing **design document** and **designing data tables** and Involved in **UML Modelling**.
* Involved in preparing **High Level Design** and wringing **functional design** documents.
* Involved in creating **Perl scripts** and Unit test cases using **Junit**.
* Involved in coordinating with **offshore** and **onsite team** to understand the **requirement** and design documents.
* Read the excel data using **Apache POI** and implement the validation rules on the data which uploaded using the excel file using **HSSF** workbook and **HSSF** sheets.
* Create **DTD files** for each **business reference tables** to validate the data.
* Working with the **system architect on the design of service** contracts.
* Responsible **for code version maintaining** and **build projects** using **Jenkins**.
* Involved in implementing **logging** mechanism using **log4j**.

**Environment:** Java, XML, Perl, Apache Server, HTML, TOAD, Makefile, Git, Jenkins, Apache POI, Log4j, Microsoft Visio, Informatica7.1, Oracle9g.