# DEVOPS ENGINEER

**Devanandha**

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# PROFESSIONAL SUMMARY:-

* Having 4+ years of experience in the IT Industry, hands on experience with **AWS Cloud and DevOps Platform, Linux/Unix, Shell Scripting, Apache webserver, Nginx webserver and Tomcat Application Server, Source Code Management (GitHub), Docker,Jenkins, Kubernates.**

# SKILL SUMMARY (DEVOPS & AWS):-

* Hands-on experience on Amazon EC2 cloud deployments using DevOps tools like Git, Maven, Jenkins, Ansible, Docker and Kubernetes.
* In depth Knowledge of AWS cloud service like Compute, Network, Storage and Identity & access management.
* Managing users and privilege services using IAM in AWS.
* Expertise in Cloud Technologies AWS Services like EC2, EBS, VPC, ELB, ALB, NLB, Route53(DNS), IAM, S3, RDS, Cloud Watch.
* Hands-on Experience in Creating VPC depends on required environment. Configuration of Network architecture on AWS with VPC, Subnets, Internet gateway, NAT, Route table. Securing VPC using security groups and Routing Tables.
* Expertise on Source Code Version Management tools like GIT.
* Experience on working with GIT and Git Hub - Created Repositories, branches and providing access permissions to the developers over branches.
* Extensively worked on Jenkins for CICD and for End to End automation for all build and deployments using pipeline and freestyle jobs.
* Monitoring daily builds and Verifying logs if job fails in Jenkins. Creating WAR Files Using the build tool Maven.
* Implementing continuous delivery framework using Jenkins, Ansible & Maven in Linux Environment.
* Good experience on **Maven** use for building java-based web applications.
* Deploying and Automated deployment of artifacts to various environments like DEV, QA, and STAGING through freestyle and pipeline.
* Verify Deployment logs to check for successful deployments.
* Configured Jenkins nodes to build jobs & distributing the load of Jenkins server and achieved parallel builds using master-slave configuration.
* Good Experience on User level and File Management Linux Commands.
* Good Experience in containerization tool Docker and configure the customized Docker containers and creating Docker files for different environments.
* Hands on experience in Container Orchestration tool Kubernetes. Creating **Kubernetes** manifest files like **pod, services, daemon sets, replica sets, replica controller and deployments.**
* Knowledge in Terraform.

# PROFESSIONAL EXPERIENCE:-

* Currently working as **AWS & DevOps Engineer** with **Deloitte** from

**Aug 2019 to** till date.

# EDUCATION:-

* **Bsc** (Bachelor of Science) from **SV University Tirupati in 2017.**

# TECHNICAL SKILLS: -

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| Cloud Platform | **AWS** |
| CI-CD Tool | **Jenkins** |
| Build Tool | **Apache Maven** |
| Configuration Management Tool | **Ansible** |
| Version Control Tools | **Git (GitHub)** |
| Web Servers | **Apache , Nginx** |
| Application Server | **Tomcat** |
| Monitoring Tools | **Cloud Watch, Nagios** |
| Code Quality (Continuous Inspection) | **SonarQube** |
| Artifact Repository | **S3, Nexus** |
| Scripting Language | **Shell Scripting** |
| Databases/ AWS RDS Services | **MYSQL , PostgreSQL** |
| Containerization Tools | **Docker, Kubernetes** |
| Operating Systems | **Linux, Ubuntu, Windows** |
| Ticketing Tools | **Jira, Service Now** |

**PROJECT DETAILS**: -

**Project #2:**

**Project : Healthcare Insurance**

**Role : DevOps Engineer**

**Environments : Linux, Shell script, AWS, Terraform, Git, Jenkins, Maven, Ansible, Docker, Kubernetes.**

**Duration : Aug 2021 to till date.**

**Health insurance in the United States** is any program that helps pay for medical expenses, whether through privately purchased [insurance](https://en.wikipedia.org/wiki/Insurance), [social insurance](https://en.wikipedia.org/wiki/Social_insurance), or a [social](https://en.wikipedia.org/wiki/Social_welfare_provision) welfare program funded by the government. In a more technical sense, the term "health insurance" is used to describe any form of insurance providing protection against the costs of medical services.

**Roles & Responsibilities:**

* Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using **GIT** source control.
* Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds and automated the deployment on the application servers using the “code deploy” plugin for Jenkins.
* **Continuous Delivery** is being enabled through **Deployment** into several environments of Test, QA, Stress and Production using **Jenkins**.
* Automate the builds and deployment of **projects** using Jenkins.
* Implement, maintain and support reliable, timely and reproducible builds for project teams
* Hands on experience in automating builds and deployment process using Shell scripting.
* Setting up EC2s, Creating VPCs, modifying route tables accordingly, Creating ELBs and configuring them to work on the service ports as per the application’s need.
* Experience working on several Docker components like Docker Engine, Hub, Machine and Docker Registry.
* Created Docker files and build images and push to the Docker private registry
* I am creating **Kubernetes** manifest files like **pod, service, daemon sets, replica sets, replica controller, and deployments.**
* Involved in fixing the **Bugs** in the build script.
* I worked on build tools such as Maven and I worked on configuration Management tools as Ansible and to deploying the packages in to servers.
* Experienced with Nagios, Cloud Watch as IT Infrastructure Monitoring tool.

**Project#1:**

**Project : HSBC Mobile application**

**Role : DevOps Engineer**

**Environments : Linux, GIT, GitHub, Maven, Jenkins, Docker and AWS. Duration : Sep 2020 to July 2021**

**Description:**

HSBC is organized within four business groups: Commercial Banking, Global Banking and Markets ([investment banking](https://en.wikipedia.org/wiki/Investment_banking)), Retail Banking and Wealth Management, and Global Private Banking. In 2020, the bank announced that it would consolidate its Retail Banking & Wealth Management arm with Global Private Banking, to form Wealth & Personal Banking. HSBC has around 3,900 offices in 65 countries and territories across Africa, Asia, Oceania, Europe, North America, and South America, and around 38 million customers. As of 2014, it was the world's sixth-largest public company, according to a composite measure by [*Forbes*](https://en.wikipedia.org/wiki/Forbes)magazine. It is considered a [systemically important bank](https://en.wikipedia.org/wiki/Systemically_important_financial_institution) by the [Financial Stability Board](https://en.wikipedia.org/wiki/Financial_Stability_Board).

**Roles & Responsibilities:**

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* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux) and Configuring launched instances with respect to specific applications.
* Setup/Managing Linux Servers on Amazon (EC2, EBS, ELB, Security Groups, RDS and IAM).
* Branching, Tagging, Release Activities on Version Control Tools: Git Hub.
* Installing and configuring Jenkins on a Linux machine and created a Master and Slave configuration to implement multiple parallel builds through a build form. Configured plugins in Jenkins to interact with the other tools and scripts.
* Manage Build and Release requests using Jenkins and managing plugins.
* Build Java Code in different Jenkins servers as per the schedule.
* Configured and maintained Nexus remote repository for deploying the artifacts and war files.
* Implemented Docker to set up local Development environment.
* Setting up the Docker private registry.
* Created Docker files and build images and push to the Docker private registry.
* Set up the local development environments through Docker containers for new developers.