**Professional Summary**

* Around 8 years of professional experience in IT comprising of Designing, Development, Integration of DevOps tools, Cloud Automation, Configuration Management, Provisioning, Build and Release, Continuous Integration/Deployment and Delivery management.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include Compiling, Packaging, Deploying and Application configurations.
* Experience in automating build and deployment workflows using GIT, MAVEN, Jenkins, Docker and Puppet.
* Strong expertise on DevOps concepts like Continuous Integration (CI), Continuous delivery (CD) and Infrastructure as Code, Cloud Computing etc.
* Experience in and demonstrated understanding of source control management concepts such as Branching, Merging, Labeling/Tagging and Integration.
* Experienced with automating release process using Maven, Jenkins, and Jira as tools in diversified project environment.
* Experience on Kubernetes for creating Projects, Services for load balancing and adding them to Routes to be accessible from outside, Creation of Pods through new application and control the scaling of pods, troubleshooting pods through ssh and logs.
* Professional Experience on Containerization tool like Docker, Writing Docker files for creating Docker images and containers for different Environments.
* Created scripts for system administration and AWS using languages such as BASH and Python.
* Created and used Ansible Playbooks in Ansible Tower and integrated Ansible tower with Jenkins to deploy code in web and application servers and used Ansible playbooks for configuration management, automated deploying and patching.
* Well versed with Software development (SDLC), Test life cycle (STLC), and Bug life cycle and worked with testing methodologies like waterfall and agile methodology (SCRUM) with in-depth understanding of the principles and best practices of Software Configuration Management (SCM).
* Expertise in installing, configuring and Administrating Jenkins.
* Work within and across Agile teams to design, develop, test, implement, and support technical solutions across a full-stack of development tools and technologies.
* Expertise in CI/CD integration, Experience in Installs, Upgrades, Patches, Configuration, performance tuning on UNIX and system software & hardware.
* Experienced in using MAVEN as a Build Tool for the building of deployable artifacts (Jar, war & ear) from source code.
* Expertise in creating DevOps strategy in a mix environment of Linux (RHEL, Ubuntu, CENTOS) servers and Windows along with Amazon Web Services.
* Expertise in troubleshooting any issues generated while building, deploying and in production support.
* Maintained local team repositories and Organization's central repositories for Maven.

**Technical Skills**

* **Cloud Technologies**: AWS (EC2, ELB, Elastic Beanstalk, VPC, Security groups, Cloud Watch, Cloud Formation)
* **CI/CD Tools:** Jenkins
* **Operating Systems:** Unix/Linux, Windows
* **Scripting Languages:** Shell Scripting, Python, YAML
* **Configuration Management:** Puppet, Ansible
* **Containerization Tools:** Docker
* **Orchestration Tool:** Kubernetes, Docker Swarm
* **Databases:** MySQL, DynamoDB, PostgreSQL
* **Tracking Tools:** Jira
* **Testing Tools:** Junit, TestNG
* **Application Server:** Apache Tomcat, Nginx
* **Programming Languages:** Java, Python, Objective-C
* **Frameworks and APIs:** Spring MVC, Flask, Django, Rest API
* **Version Control:** Git
* **Build Tools:** Maven
* **Logging Tool:** Splunk
* **Application Server:** Tomcat, Nginx
* **Monitoring Tools:** Nagios
* **Software Development Methodologies:** Agile/Scrum, Waterfall
* **Certification:** Certified Kubernetes Application Developer (CKAD) – ID# LF-k2f75fe312

**WORK EXPERIENCE h**

**DevOps Engineer – Namitus Technologies, Client - AT&T, Plano, TX January 2021 – Present**

* Using Kubernetes to orchestrate the deployment, scaling, and management of microservices deployed in Docker containers.
* Maintaining all LDAP services and administration- Performing LDAP directory upgrades, enhancements, and revisions.
* Installing and configuring Apache Tomcat and Nginx application servers by using playbooks and shell scripts.
* Writing python scripts to automate tasks, like disk cleanup, file transfer, log compression, etc.
* Implementing CI/CD pipeline from commit to deployment using Git, Jenkins, Ansible, and Kubernetes.
* Created Deployments, Services, Ingress resources, CronJobs, ConFigMaps, Secrets, and Taints/Tolerations for microservices.
* Create Ansible roles to install, configure, create/copy/delete files on the agent nodes.
* Using Splunk as a log monitoring tool and creating various Splunk dashboards as per requirement.
* Involved in source control management with GitHub and Enterprise level repositories. Regular activities include configuring monitor logs, identifying merge conflicts, and managing the master repository.
* Configuring Jenkins for continuous integration using Jenkinsfile, fast feedback, and Jenkins pipelines to support implementing and integrating continuous delivery pipelines in Jenkins.
* Writing Dockerfile with multistage builds to containerize microservices to ensure small image size.
* Participating in an Agile/Scrum methodology to deliver high-quality software and actively involved in Scrum meetings, Sprint planning, defect raising, and tracking.
* Performing regular re-purposing of applications using Ansible playbooks across environments to ensure updated code across env(s).
* Working on SAST and DAST tools for secure code reviewing and to find potential vulnerabilities.
* Implemented HTTPS ingress controller and use TLS certificate on Kubernetes to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Implemented Jira to capture, organize and prioritize issues.
* Implemented Release management workflow for DEV, QA, CT1, CT2, Perf and Prod environments.
* Created Eco pipelines connected to Jenkins for build and deployment to be used by Developers.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Used MAVEN as build tools on Java projects for the development of build artifacts on the source code.
* Created nightly builds with integration to code quality tools such as SonarQube, Veracode.
* Upgraded Tomcat, Apache and JDK versions on the required hosts within different environments routinely.
* Creating Ansible roles using YAML such as tasks, variables, files, handlers, templates and writing playbook for that role. Managed a PaaS for deployments using Docker, Ansible and K8, which reduced considerably deployment risks.
* Ensured that complex defects and problems were resolved through production releases and upgrades.
* Setup Cron jobs to ensure that the server restarted if interrupted due to any issue except on-going deployment.

**DevOps Engineer – Flexon Technologies, Client - Apple Inc., Sunnyvale, CA June 2019 - January 2021**

* Maintained and updated Spark properties like executor memory and driver cores to ensure high performance.
* Wrote Dockerfile to build/push new images to the repository and pulled those to run as containers.
* Implemented a production-ready, load-balanced, highly available, fault-tolerant, Auto-scaling Kubernetes infrastructure and microservice container orchestration.
* Worked and configured CI/CD pipeline for deployments of applications by using Apple internally developed tools.
* Developed Ansible playbooks for Application hotfix drops, kernel patch management, and other Server and Application lifecycle management tasks.
* Involved in provisioning and Automation servers on Public Cloud like AWS and Kubernetes
* Executed change requests like Database password changes (user/app) and application onboarding to the IP platform.
* Built Jenkins pipeline to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, created pods, and managed using Kubernetes.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon

Elastic Container Service for Kubernetes (EKS)

* Worked on Branching and Merging, Resolving Branching Strategy maintaining Branching strategy using GIT.
* Worked on monitoring applications, like Hubble, to ensure availability and response times are within the targeted thresholds.
* Responsible for Continuous Integration and Continuous Delivery (CI/CD pipeline) process implementation using Jenkins along with Python and Shell scripts to automate routine jobs.
* Converted VM-based application to microservices and deployed as a container managed by Kubernetes.
* Worked on decommission activity of inactive applications as part of Project Hogwarts.
* Wrote docker file to build/push new images to the repository and pulled those to run as containers.
* Performed Kubernetes application management tasks, such as rolling updates, injecting information into pods, and horizontal Pod autoscaling.
* Installed, Configured and managed Ansible Centralized Server and created playbooks to support various application servers.
* Managed Kubernetes charts using Helm. Created reproducible builds of Kubernetes application, and managed manifest files and managed releases of Helm packages.
* Used Splunk as log monitoring tool and created various Splunk dashboards as per requirement.
* Developed Ansible playbooks for Application hotfix drops, kernel patch management and other Server and Application lifecycle management tasks.
* Wrote shell scripts and python scripts to automate the daily repeated Linux administration tasks.
* Developed Restful Web services using Spring MVC and and Spring boot.
* Worked with lightweight Docker containers and fast for reducing the cycle time of development, testing, and deployment.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling, naming conventions using GIT.
* Collaborated with cross functional teams (Offshore and Onsite) to align projects, releases, patches, and other efforts.

**DevOps Engineer – Flexon Technologies, Pleasanton, CA March 2019 – June 2019**

* Deployed and managed Kubernetes resources, such as pods, replication controllers, replica sets, services, deployments, labels, health checks, and ingress by writing Yaml files.
* Developed/deployed REST APIs using Spring MVC and Spring boot hosted on the cloud.
* Worked on Branching, Merging, conflicts, and maintained Branching strategy using GIT.
* Containerized microservice using Docker and manage containers using Kubernetes.
* Created Ansible roles using modules like tasks, variables, files, handlers, templates.
* Created CI/CD pipeline using Jenkins with Shell scripts to automate routine jobs.
* Developed AWS Cloud Formation templates to create custom VPC, Subnets, NAT to ensure deployment of web applications.
* Developed Python/Shell Scripts for manual deployment of the code to environments.
* Used Splunk as a log monitoring tool and created various Splunk dashboards as per requirement.
* Worked with maven for building the application, and wrote maven scripts and shell scripts to automate the build process.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Configured Jenkins for continuous integration, fast feedback and Jenkins Pipeline to support implementing and integrating continuous delivery pipelines in Jenkins.
* Built Jenkins pipeline to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, created pods and managed using Kubernetes.
* Lead the cloud infrastructure maintenance effort using a combination of Jenkins, Ansible and Kubernetes for Automating CI/CD pipeline in AWS.
* Worked on containerization tool like Docker for writing Dockerfiles for creating Docker images and containers for different Environments.
* Implemented and maintained the branching and build/release strategies utilizing GIT on AWS.
* Installed Ansible and using it to manage/configure systems.
* Worked on Branching and Merging, Resolving Branching Strategy maintaining Branching strategy using GIT.
* Automated AWS infrastructure via Kubernetes and Jenkins - software and services configuration via Ansible playbook.
* Worked with Jenkins for any automation builds which are integrated with GIT as part of infrastructure automation under continuous integration (CI).
* Configured GIT with Jenkins and schedule jobs using POLL SCM option. Responsible for all aspects of the Software Configuration Management (SCM) process including Code Compilation, Packaging, Deployment, Release Methodology and Application Configurations.
* Containerized micro service application using Docker and managed containers using Kubernetes.
* Participated in an Agile/Scrum methodology to deliver high-quality software releases every two weeks through Sprints.
* Developed and deployed REST API's using Spring MVC and Spring boot, hosted all micro services on cloud.

**DevOps Engineer, Tuutkia, Fremont, CA September 2018-March 2019**

* Developing REST web services for review aggregation platform using Python and Flask.
* Working on implementing a sentiment analyzer on top of the platform and deploying the platform on AWS EC2.
* Worked on Apache Kafka, Spark, and regression algorithms in order to provide aggregated data and recommendations to users.
* Performed application server builds in EC2 environment and monitoring them using cloud watch.
* Creating Private networks and sub-networks and bringing instances under them based on the requirement.
* To achieve Continuous Delivery goal on high scalable environment we used Docker coupled with load balancing tool Nginx.
* Configured and automated the Jenkins Build jobs for Continuous Integration.
* Participated in configuring and monitoring distributed and multiple platform servers using Puppet Used Puppet server and workstation to manage and configure nodes.
* Managed to deliver specific versions of various components of an application into target environments.
* Worked with Docker for Portable deployment of applications.
* Modeled the structure for multi-tiered applications orchestrate the processes to deploy each tier.
* Performed application server builds in EC2 environment and monitoring them using cloud watch.
* Creating Private networks and sub-networks and bringing instances under them based on the requirement.
* To achieve Continuous Delivery goal on high scalable environment we used Docker coupled with load balancing tool Nginx.
* Using Jenkins AWS Code Deploy plugin to deploy to AWS.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Developed build and deployment scripts using MAVEN as build tools in Jenkins to move from one environment to another environments.
* Used various plug-ins to extend the base functionality of Jenkins to deploy, integrate tests and display reports.
* Used tracking tool JIRA and triaged the issues and maintained bugs using JIRA tool. Analyze and resolve conflicts

related to merging of source code for GIT.

* Set up Jenkins server and build jobs to provide continuous automated builds based on polling the Git source control system during the day and periodic scheduled builds overnight to support development needs using Jenkins,
* Building and configuring RedHatsystems over the network, implement automated tasks through CRON jobs, resolving tickets according to the priority basis.

**Graduate Research Assistant, Drexel University, Philadelphia, PA June 2017-August 2018**

* Implemented code for video section and revamped the UI of the Android app for midwives to follow different medical procedures.
* Researched and conducted surveys for different UI design.
* Developed working prototypes from UI designs for cross-platform devices.
* Deployed and configured Git repositories with branching, forks, tagging, merge requests, and notifications.
* Using Jenkins AWS Code Deploy plug-in to deploy into AWS.
* Implemented DevOps life cycle using CI/CD pipelines and migrated on premise infrastructure to cloud platforms AWS and infrastructure orchestration using containerization technologies.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile Scrum.
* Responsible for Continuous Integration and Continuous Delivery (CI/CD pipeline) process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Responsible for the Plugin Management, User Management, and End-End Job Setup of all the projects and Integration of Nexus Repository, Jenkins, Urban code Deploy with Patterns/Release, Git, Jira.
* Automated the Build and Deployment environment end -to- end using Jenkins.
* Installed and configured Kubernetes to manage Docker containers.
* Helped convert VM based application to micro services and deployed as a container managed by Kubernetes.
* Participated in an Agile/Scrum methodology to deliver high-quality software and actively involved in Scrum meetings, Sprint planning, defect raising and tracking.
* Used tracking tool JIRA and triaged the issues and maintained bugs using JIRA tool. Analyze and resolve conflicts

related to merging of source code for GIT.

* Developed and maintained deploy jobs for application code deployment across all environments.
* Using Jenkins AWS Code Deploy plug-in to deploy to AWS.
* Developed Linux**,** UNIX**,** Pythonand Shell Scripts for manual deployment of the code to various environments.
* Extensively used Docker for virtualization, Ship, Run and Deploy the application securely for fasten the Build/Release.
* Used Docker coupled with load-balancing tool Nginx, to achieve Continuous Delivery goal on high scalable

**DevOps Engineer, Boltt Sports Technologies Pvt. Ltd., Noida, India January 2016-September 2016**

* Mapped hexadecimal data fetched using BLE Technology from stride sensor by building a C++ bridge into usable format.
* Collaborated proactively with Research analysis team to create sleep analysis, workout creation, cardio algorithms for fitness trackers and stride sensors.
* Worked with Agile (Scrum) methodology to design an AI health coach called "B" for training users, app showcased at CES 2017.
* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Worked on Agile Methodologies and involved in daily stand-up calls and creating the user stories and taken care of sprint planning.
* Imported and managed multiple corporate applications using GIT.
* Implementing new projects builds a framework using Jenkins & maven as build framework tools.
* Responsible for Design of different Release Environments for new projects.
* Troubleshoot the build issue during the Jenkins build process.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation fusing Jenkins along with Shell scripts to automate routine jobs.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Experience in Designing, Installing and Implementing Ansible configuration management system and in writing playbooks for Ansible and deploying applications
* Perform Deployment of Release to various QA& UAT in Linux environments.
* Created documents on build and release process and flow, release processes, the order of activities for all releases, user guide for developers for local builds.

**DevOps Engineer, Wildnet Technologies Pvt. Ltd., Noida, India** **February 2015-January 2016**

* Integrated MVC architecture in the application, exchanged data between the web service and application by REST API and HTTP

GET & POST method via REST API developed in PHP and integrated facebook & twitter framework.

* Streamlined the code for Commusoft app, increasing its performance by 40%.
* Built an Audio, Video, Image and Music editing app (Mashup Guru) using AVFoundation and implemented facebook, Instagram & twitter frameworks to upload rendered video files online.
* Developed automation scripting in Pythonto deploy application.
* Research Jenkins issues and develop a plan to resolve issues based on research.
* Communicate and convey technical ideas and concepts with supervisor as well as peers.
* Coordinated releases with development and testing teams to ensure systems are ready for code to be deployed.
* Implemented Continuous Integration using Jenkins and GIT.
* Configured Nagiosto monitor EC2 Linux instances with puppetautomation.
* Top to bottom comprehension of the principles and best practices of the Software Configuration Management (SCM) in Agile, SCRUM and Waterfall methodologies.
* Worked on Branching and Merging, Resolving Branching Strategy maintaining Branching strategy using GIT.
* Automated AWS infrastructure via Kubernetes and Jenkins - software and services configuration via Ansible playbook.
* Extensive use of Maven to build and deploy the application into the dev environment and QA environment and work with the front-end developers in displaying the data
* Participated in an Agile/Scrum methodology to deliver high-quality software releases every two weeks through Sprints.
* Installed and configured Jenkins for Automating Deployments and providing an automation solution.
* Implemented continuous delivery pipeline using Docker and Jenkins.
* Evaluated Docker container technology to replace some virtual environments.
* Worked on Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Involved in setting up the architecture of proposed environments with all the CI/CD tools.
* Integrated GIT into Jenkins to automate the code check-out process.
* Designing, creating and maintaining GIT repositories to client specifications.

**EDUCATION u**

**Drexel University, Philadelphia, PA June 2018**

Master of Science in Computer Science GPA: 3.37/4.0

**Uttar Pradesh Technical University, Lucknow, India**  **July 2014**

Bachelor of Technology in Computer Science GPA: 3.1/4.0