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AKHIL P

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|  | DEVOPS ENGINEER |
| 647-947-2375 |
| [AkhilP26m@gmail.com](mailto:AkhilP26m@gmail.com) |
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| **Career Objective:** A highly motivated and organized individual with 5 years of professional IT experience, practicing cloud computing, DevOps and quality engineering in build tests and deployments of web applications. Great team player with excellent team spirit, communication, and interpersonal skills, Self-Motivated and a good rational decision maker with critical and analytical thinking for solutions to problems. |  |
| **PROFESSIONAL SUMMARY:**   * **DevOps Engineer** with **5 years** of extensive experience in Software Development Life Cycle (SDLC) including requirements analysis, design specification, coding and testing of enterprise applications. * Experienced in working on **DevOps/Agile** operations process and tools area (Code review, unit test automation, **Build & Release** automation, Environment, Service, Incident and Change Management). * Experience in Cloud automation using **AWS Cloud Formation templates** to create custom sized **VPC, subnets, NAT, EC2 instances, ELB** and **Security groups.** * Experience in working on source control tools like **GitHub (GIT), GIT LAB, Perforce and Bitbucket.** * Good Experience in the development of test environment on **Docker containers** and configure the **Docker containers** using **Kubernetes** while automating build and deployment to reduce human error and speed up production. * Experience in designing solutions in **AWS** using automation such as **Ansible** and demonstrate proficiency in provisioning tools like **Terraform** in production environments, leading the development of **DevOps** processes and **CI/CD** management. * Strong hands-on experience with scripting languages like **Java, Python, Bash, Shell, Ruby, PowerShell, and JavaScript.** * Expertise in AWS solutions using **EC2, S3, Dynamo DB, EBS, Elastic/Application Load Balancer, Auto scaling groups, VPC, ECS, RDS, Security Groups, Route 53, CloudWatch, Cloud Formation, Elastic Bean Stack** etc. * Experience automating the deployments in **AWS** using **Terraform, Puppet, Chef**, and **Jenkins** * Experience in **DevOps,** Automation with **Docker** and Continuous Deployment procedures using tools such as **Docker-machine and Docker-compose.** * Experience with Linux/Unix OS system administration, configuration, troubleshooting, performance tuning, preventative maintenance, and security procedures * Proficient in continuous delivery using **Chef.** Developed Cookbooks and coded recipes for automating deployments and administering infrastructure of the nodes. * Experience in Installing, Configuring and management of **Ansibl**e Centralized Server (Tower) and creating the playbooks to support various middleware application servers. * Strong expertise on implementation of **Jenkins / Hudson, Team city** as a Continuous Integration Tools Where I am involved in writing various Build Jobs for building artifacts of the project. * Strong knowledge on source controller concepts like Branches, Merges and Tags. * Proficiency with build and release engineering tools including **Jenkins** configuration, **Subversion, Git, Maven** and **Jenkins Plugins, SonarQube and UDeploy.** * Experience in monitoring tools like **Nagios and Splunk.** * Experience in Configuring, Deploying application artifacts on application stack on middleware tools such as **JBoss, Apache Tomcat, Web Server and Web Sphere.** * Experience in Installation, Configuration and Administration of **Windows, Red Hat Linux, Cent OS** and **VMware** Environments.   **Technical Skills:**   |  |  | | --- | --- | | CI/CD Tools | GIT, Bitbucket, Jenkins, Artifactory, Team city, Ansible, Chef, Puppet, Nexus, Maven, Docker, Kubernetes, Open shift, Team Foundation Server (TFS), Confluence, CVS, Clear Case, GIT, Perforce, SVN | | Cloud Computing | AWS EC2, S3, Dynamo DB, EBS, ECS, IAM, RDS, SNS, SQS, Route53, ALB, Auto Scaling, VPC, Lambda, Cloud Trail, Cloud Watch and Cloud Formation | | Languages/Scripting | Java/J2EE, JavaScript, Batch scripting, Shell scripting, SQL, Python, Power Shell | | Web Technologies | JavaScript, XML, JSP, HTML | | Build Tools | ANT, MAVEN and Gradle | | Bug Tracking Tools | JIRA, HP ALM, Service Now | | Web servers | Web logic, Web Sphere, Apache Tomcat | | RDBMS | Oracle, SQL Server, MySQL, RDBMS, ETL | | Operating System | Windows, Mac OS X, Unix, Linux, Red Hat, CentOS, Cloudera, Open shift | | Others | Putty, Tectia, Autosys, MS Excel, MS Outlook |   **Professional Experience:**  **CANADA LIFE., Toronto, ON April 2021 - Present**  Canada Life is a well-established insurance and financial services company based in Canada. It is one of the largest and most prominent insurance providers in Canada. Canada Life has adopted digital and technological innovations to improve customer experiences and streamline their operations.  **Role: DevOps Engineer**  **Responsibilities:**   * Integrated **Jenkins with GitHub** for continuous integration and deployment of the code by enabling **Git** hooks, the build jobs are automatically created once the changes are made to the code by dev team. * Utilized **Bitbucket, Jenkins, Ansible, Team city, Artifactory, Udeploy, Autosys,** and **JIRA** for continuous Integration (**CI**) and Continuous deployment (**CD).** * Created and cloned the repositories and various branches including **bug fix, hot fix, feature, release**, and **custom** branches using **Bit bucket**. * Created **Pull requests**, committed and merged the changes into **remote repositories** in Bitbucket. * Created and configured projects, supporting **orchestration** workflows and building jar files for Continuous integration (**CI**) using **Team city** application. * Created applications and components for various environments and configured and supported the projects for Continuous deployment (**CD**) using **IBM Udeploy**. * Created a non-container-based **Jenkins pipeline** and **Bitbucket repositories**, configured a **Bitbucket web hook** in the repository to trigger a build on every code change. * Created **Jenkins** file with necessary configurations including **Declarative Checkout SCM, Initialize, Maven Build, Prepare Artifacts, Sonar Analysis, Upload to Artifactory, Create Udeploy Version, Deploy to Dev**, and **Declarative Post Actions**. * Created a pipeline for feature/bug fix/release branch builds to upload **artifacts** into **Udeploy** and to trigger **Udeploy** process for **automatic deployment**. * Integrated the **blue ocean plug-in** to monitor the **Jenkins** build steps stage wise and **Jacoco** plug-in for **JUnit test cases** for a detailed coverage report in the **Jenkins pipeline**. * Integrated **SonarQube** for code coverage to identify and monitor reliability, security, and coverage. * Integrated **JIRA** and **Bitbucket** using **smart commits** to display **JIRA task links** in **Bitbucket** commit message, Bitbucket commits, branches and pull requests are shown in JIRA. * Designed, Installed, and Implemented **Ansible configuration** management system. * Responsible for using **AWS console** for deploying and operating **AWS services** specifically **VPC, EC2, S3, EBS, IAM, ELB and CloudFormation.** * Extensively worked on **Jenkins CI/CD** pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process. * Built Scripts using **ANT and MAVEN** build tools in **Jenkins** to move from one environment to another environment. * Performed Branching, Tagging, Release Activities on Version Control Tool **GIT (GitHub).** * Developed **Shell Scripts** to automate repeatable tasks, used **Bash Shell** scripting to manage directories, files, users, and applications. * Worked on high-volume crash collecting and reporting system, built with **Python.** * Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects. * Integrated **Jenkins with GitHub** for continuous integration and deployment of the code by enabling **Git** hooks, the build jobs are automatically created once the changes are made to the code by dev team. * Created Multi branch pipeline and shared pipeline libraries that can be used by other jobs, created Artifacts and Fingerprints of the build jobs. * Used **NEXUS** for artifact repository and Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GITHUB** source control. * Created **Maven POMs** to automate the build process for the new projects and integrated them with third party tools like **SonarQube** and **Nexus.** * Developed the build **CI/CD** pipeline script using different programming languages like **Groovy, Shell and Python** and secure them with **Apache Kafka, Apache Nifi** and **Agile** methodologies. * Coordinate release activities with Project Management, QA, Release Management and Web Development teams to ensure a smooth and trouble-free roll out of releases.   **Environment:** Maven, Ant, Jenkins, Docker, Kubernetes, AWS, Chef, Ansible, Terraform, Nagios, Shell, Python, Nexus, SonarQube, CI/CD, GIT, Tomcat, Kafka, Agile, Windows and LINUX.  **Walmart., Mississauga, ON Sep 2019 – Mar 2021**  Walmart Inc. is one of the world's largest and most well-known multinational retail corporations. Walmart has grown into a global retail giant with a significant presence in various countries. As a DevOps Engineer, I am responsible for CI/CD, Version, Source Code, Environment, and Software Release Management.  **Role: DevOps Engineer**  **Responsibilities:**   * 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. * Actively involved in architecture of **DevOps platform** and cloud solutions. * Managed servers on the **Amazon Web Services** (AWS) platform instances using **Chef** Configuration management. * Bootstrapping instances using **Chef** and integrating with auto scaling. * Written multiple recipes and customized facts for efficient management of the **Chef clients.** * Installed the application on **AWS EC2** instances and configured the storage on **S3 buckets.** * Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS Cloud watch.** * Configured and maintained Jenkins to implement the CI process and integrated the tool with **Ant and Maven** to schedule the builds. Took the sole responsibility to maintain the **CI Jenkins server**. * Created **Ansible** Playbooks to provision Apache Web servers, Tomcat servers, **Nginx, Apache Spark** and other applications. * Used **Ansible** for configuration management of hosted instances within **AWS.** Configuring and Networking of **Virtual Private Cloud.** * Involved in using **Terraform** migrate legacy and monolithic systems to **Amazon Web Services.** * Responsible for **CI/CD** process implementation using **Jenkins** along with **Python** and **Shell scripts** to automate routine jobs. * Developed **Python** career path through professional development while working on **Python projects.** * Created and managed a **Docker** deployment pipeline for custom application images in the cloud using **Jenkins.** * Used **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications using its nodes, config maps, selectors and services. * Setting up and configuring of **Nagios**, improved monitoring in **Nagios** and custom plugins. * Deployed the **Java** applications into web application servers like **Apache Tomcat.** * Configured **Jenkins** jobs to automate build on **Java projects** for the development of build artifacts on the source code. * Configured local **Maven** repositories and multi-component **ANT** projects with **Nexus** repositories and scheduled projects in **Jenkins** for continuous integration. * Responsible for design and maintenance of the **Subversion/GIT** Repositories, views, Branches, Merges, and the access control strategies and implemented **Subversion and GIT** metadata including elements, labels, attributes, triggers and hyperlinks. * Management of **Red Hat Linux** user accounts, groups, directories and file permissions.   **Environment:** CI/CD, Jenkins, Maven, AWS, Terraform, Chef, Ansible, Docker, kubernetes, GIT, Nagios, SonarQube, Nginix, Bash, Python, Java, Tomcat, Ant, Nexus, Shell, Red Hat and Windows.  **Infinity Building Solutions, INDIA Sep 2018 – Aug 2019**  Infinity is a technology solutions company with expertise in design and development of customized software, web and mobile solutions for businesses of varied sizes and industries, worldwide.  **Role: Software Engineer**  **Responsibilities:**   * Developed and implemented Software Release Management strategies for various applications according to the agile process. * Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases. * Created **Chef Recipes** for automating the Infrastructure, deployment process. * Managed Nodes, Run lists, roles, environments, data bags, cookbooks, recipes in **Chef.** * Used **Puppet** to automate the slave configuration setup and maintenance and Authored Puppet manifest files for automating the deploy processes. * Worked on creation of **Puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications. * Migrated an existing legacy infrastructure and recreated the entire environment within **Amazon's Web Services (AWS).** * Worked with **AWS Cloud** platform and its features, which include **IAM, EC2, S3, AMI, EBS, VPC, and RDS.** * Organized various projects build artifacts using **Maven and Nexus** Repositories. * Used **Maven and Python** scripts to automate the Build and deployment process to deploying the web services. * Installed/Configured and Managed **Nexus Repository** Manager and all the Repositories. * Managed **Maven** project dependencies by creating parent-child relationships between projects. * Collaborated with development support teams to setup a continuous delivery environment with the use of **Docker.** * Used **Jenkins** innovatively to automate most of the build related tasks.   **Environment:** Java, Maven, Jenkins, Python, Shell, Perforce, Subversion, GIT, Nexus, puppet, Chef, AWS, Docker, Jboss, Windows and LINUX | |

**Education:**

* Bachelor’s degree in engineering at Gudlavalleru Engineering College, India. 2014-2018.