

PUSPA LAL KHANAL
Software Engineer
Work Authorization: USC

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PROFESSIONAL SUMMARY

- ⇒ Knowledge in AWS Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups.
- ⇒ Set up the scripts for creation of new snapshots and deletion of old snapshots in S3 using S3 CLI tools.
- ⇒ Knowledge in terraform for building, changing and versioning infrastructure.
- ⇒ Knowledge setting up and maintaining auto-scaling AWS stacks using Terraform and scripting
- ⇒ Knowledge implementing Capability deployment using terraform scripts
- ⇒ knowledge use of terraform as an infrastructure as code in order to automate the tools to create required services in AWS.
- ⇒ Experience on Production systems troubleshooting, root cause analysis, performance monitoring, and improvements.
- ⇒ Worked with Amazon IAM console to create custom users and groups.
- ⇒ Knowledge in working on source control management tools like GIT (GitHub), and creating GIT repositories with specified branching strategies.
- ⇒ Knowledge in using build tool MAVEN for the building of deployable artefacts such as war from source code.
- ⇒ Knowledge in implementation and maintenance of Apache HTTP, SMTP, DNS, TCP/IP, Security Management & Security trouble shooting skills.
- ⇒ Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
- ⇒ Configured and administered Jenkins for automated builds Responsible for installing Jenkins master and slave nodes.
- ⇒ Knowledge of using DSL Groovy Scripts which helps to create Jenkins Jobs similar to DEV environment in PROD during deployment
- ⇒ Knowledge in automating builds and deployment process using Bash, Python and Shell scripts.
- ⇒ Strong knowledge on source controller concepts like Branches, Merges and Tags.
- ⇒ Knowledge constructing a RESTful API to manage infrastructure services using Python.
- ⇒ Knowledge configuring 'Nginx' for proxy RESTful API calls to micro-services in Docker containers.
- ⇒ Familiar with designing and deploying container-based production clusters using Docker.
- ⇒ Knowledge with Docker container service. Creating Docker files, Docker Images & Containers.
- ⇒ Experience with container based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
- ⇒ Experience implementing a production ready, load balanced, highly available, fault tolerant Kubernetes infrastructure.
- ⇒ Experience implementing cluster services using Docker and Kubernetes

- ⇒ Experience automating Compute Engine and Docker Image Builds with Jenkins and Kubernetes.
- ⇒ Experience creating Kubernetes YAML file for the deployment in Kubernetes Cluster
- ⇒ Experience using DSL Groovy Scripts which helps to create Jenkins Jobs similar to DEV environment in PROD during deployment
- ⇒ Experience using Jenkins and pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
- ⇒ Experience developing RESTful API for cloud management solutions based on Kubernetes platform.
- ⇒ Experience troubleshooting and deploying web application servers like WebLogic, and Apache Tomcat.
- ⇒ Experience Deploying Microservices in Docker Containers using the Docker Images pushed to Docker Trusted Repository built by using Docker File
- ⇒ Knowledge in back-end language like Python, Ruby on Rails, and basic knowledge in Java
- ⇒ Knowledge in front-end language like HTML, CSS, JavaScript

TECHNICAL SKILLS:

Technologies	Tools
Operating Systems	Linux, Windows Server
App & Web Server packages	Apache Tomcat, nginx
Programming Languages	PHP, Python, java
Scripting Languages	Shell, Bash, Groovy, Ruby on Rails
SCM Tools	GIT
Build Tools	Maven, Ant
CI-CD Tools	Jenkins
Binary Mgmt. Tool	Jfrog Artifactory
Tracking / Change Mgmt. Tools	JIRA,Trello, Kanban
Code Quality Tool	SonarQube
SOA/Web services	REST
CM / Provisioning Tools	Terraform Template and cloudformation
Containerization Tools	Docker
Container Management Tools	CCS, EKS
Cloud Computing	AWS
Logging & Monitoring Tools	Splunk,ELK

WORK EXPERIENCES:

Client: Inseego, Eugene, OR

June 2019 – June 2020

Role: DevOps Engineer

Responsibilities:

- ⇒ Create and maintain automated systems for continuous integration and continuous deployment.
- ⇒ Apply the latest industry advancements to improve infrastructure reliability, scalability, performance, and repeatability of setup and deployment.
- ⇒ Work on multiple tasks in support of one or more projects that require a singular area of expertise.
- ⇒ Work as a project team member, or independently on small projects.
- ⇒ Increase your skill in multiple technical environments and knowledge of a specific business area.
- ⇒ Create and maintain monitoring and alerting solutions to ensure that any unexpected issues are promptly identified and escalated.
- ⇒ Work collaboratively as a team player to develop mutually acceptable solutions among Development, Information Technology and Product Teams.
- ⇒ Solve problems and provide support, taking responsibility to make decisions when appropriate.
- ⇒ Understand applications from a technical architecture and business goals perspective to apply DevOps best practices.
- ⇒ Excellent communications skills with the ability to share insights and expectations with clients, stakeholders and colleagues, both locally and remote.
- ⇒ Networking or System Administration role.
- ⇒ Experience scripting and automating deployments and management of IT solutions
- ⇒ Broad understanding of tools and technologies with a preference for Amazon Web Services (AWS), Jenkins, and Git.
- ⇒ Source Control (Git, Bitbucket)
- ⇒ Continuous Integration (Jenkins)
- ⇒ Infrastructure Automation (Ansible)
- ⇒ Deployment Automation & Orchestration (Jenkins, Ansible)
- ⇒ Container Concepts (Docker)
- ⇒ Cloud (AWS)
- ⇒ Build and deployment of cloud based and hybrid-cloud solutions with Jenkins, Git.
- ⇒ Strong operational experience in Linux/Unix environment and scripting (Python, Shell)
- ⇒ Experience with configuration, automation management, health checks, single point of failure, notifications in AWS environments.
- ⇒ Monitoring tools (Elk)

Environment: GIT, GitHub, Jenkins, Maven, Tomcat, Jira, Shell-Scripts, Python, Nagios, WebLogic, Java, AWS, GitLab

Client: Pubforge, Lancaster, PA
Role: Software Engineer(internships)
Responsibilities:

Jan 2019 - May2019

- ⇒ Maintained file systems: Checking and repairing file systems and monitoring file system usage.
- ⇒ Working on source control management tools like GIT (GitHub), and creating GIT repositories with specified branching strategies.
- ⇒ Strong knowledge on source controller concepts like Branches, Merges and Tags.
- ⇒ Designed, implemented and deployed (WordPress)
- ⇒ Developed project scope and created concept
- ⇒ Maintained schedules and assured on-time delivery of content
- ⇒ Solve problems and provide support, taking responsibility to make decisions when appropriate.
- ⇒ Monitoring tools (Splunk)
- ⇒ Excellent communications skills with the ability to share insights and expectations with clients, stakeholders and colleagues, both locally and remote.
- ⇒ Create and maintain monitoring and alerting solutions to ensure that any unexpected issues are promptly identified and escalated.
- ⇒ Continuous Integration (Jenkins)

Environment: GIT, GitHub, Jira, WordPress, Slack, Splunk, Jenkins and Scrum,

Client: IT Export Nepal, Jhapa, Nepal
Role: DevOps/Cloud Engineer
Responsibilities:

May 2013– June 2015

- ⇒ Developed bash scripts for the purpose of manual deployment of the code to different environments.
- ⇒ Backed up and restored configurations and data of various tools (Subversion (SVN), Jenkins, WAS), databases (oracle, db2) and servers (windows, RHEL) as required.
- ⇒ Managed the GIT branching strategy for a few applications by creating Release branches, Development branches.
- ⇒ Used the pom.xml file from Maven and gave Maven as a plugin to Jenkins to automate build process.
- ⇒ Configured Jenkins daily periodic backups for Jenkins configuration and plugins files.
- ⇒ Deployed the Java applications into web application servers like Apache Tomcat.
- ⇒ Managed Source code using SVN/GIT and used the concepts of branching, merging and tagging for release management
- ⇒ Configured and managed a network of Linux and Windows servers.
- ⇒ Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
- ⇒ Maintained file systems: Checking and repairing file systems and monitoring file system usage.
- ⇒ Developed build scripts using ANT as the build tool for the creation of (WAR files) build artefacts.
- ⇒ Involved in troubleshooting the automation of Installing and configuring JAVA applications in the test and pre-production environments.

- ⇒ Deployment and implementation of Chef for infrastructure as code initiative.
- ⇒ Deployed the archives like war files into the Tomcat Application Server and TCP Servers.
- ⇒ Involved in editing the existing ANT build files in case of project requirement changes.
- ⇒ Responsible for the development and maintenance of processes and associate
- ⇒ Setup Jenkins server for build and test applications
- ⇒ Maintained ant build script including build.xml and pom.xml
- ⇒ Experience managing Apache Tomcat Application Server

Environment: Jenkin, GIT, GitHub, Jenkins, Maven, Tomcat, Jira, Shell/Perl Scripts, Python, Nagios, WebLogic, Java, Python

EDUCATIONS:

Thaddeus Steven College of Technology
Associate Degree of Applied Science: Software Engineer
750 E King St
Lancaster, PA 17602
Graduation date: May, 2019

REFERENCE:

- Thaddeus Steven College of Technology
Phone: 717-299-7701