**Mohan Shrestha**

**DevOps Engineer**

DevOps Engineer with more than 6 years of experience in web and mobile development projects. Strong troubleshooter and problem solver providing advanced solutions to technical problems. Adept at working with international clients to deliver fully realized, flexible technology solutions. Committed to improving the end user experience by enhancing application performance, responsiveness, and interactivity. Passionate about technology, problem solving and learning new devops tools.

**Professional Summary:**

* Worked closely with Product Development counterparts on requirements, solution design, issue identification and resolution, problem solving, and planning related to production issues and software releases.
* Supported Application Engineering deliverables within a project, e.g., production requirements, application engineering design documents, and release and implementation plans.
* 6+ years of experience in DevOps, Build &Configuration Management (SCM), Release Engineering and Linux Administration maintaining Code, Deploying, migrating code from Development, Test, QA to Production environments working closely with developers/Mangers reporting build failures report generation/build automation.
* Focused in the areas of Continuous Integration, Continuous Delivery (CI/CD) and release management.
* Experience in using Nexus repository manager for versioning artifacts and deploying it to application servers.
* Configured Jenkins nodes to build jobs in the view of distributing the load of Jenkins server and achieved parallel builds.
* Expertise in automation tools like Jenkins, Chef, Puppet, Ansible, Subversion, Ant, Maven, and Docker.
* Configured Jenkins job with Maven build tool and accomplished continuous deployment by integrating Ansible and Jenkins using Jenkins plugins.
* Expertise in AWS Cloud IaaS stage with components EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, AMI, RDS, S3, SNS, SQS, CloudWatch, CloudFormation, CloudFront, Direct Connect.
* Experience in using JFrog repository manager for versioning artifacts and deploying it to application servers.
* Experienced in installing, updating and keeping up RedHat Enterprise Linux, SunSolaris, Ubuntu, Centos, and Windows based situations.
* Creation of pipelines in Jenkins includes Continuous integration of tools like Maven, Git, Sonarqube, nexus, Selenium and Continuous deployment using Chef and Vagrant.
* Experience in fast paced Agile/ Scrum environment.
* Working with AWS Cloud computing and involved in creating AWS instances and deployed Linux and Ubuntu on AWS environment and expertise in migrating applications onto AWS.
* Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including Auto-Scaling and CloudFormation scripts.
* Took Part in DevOps implementation pilot program and was trained in DevOps methodologies and tools like Chef, Puppet etc.,
* Experience in the usage of data center automation and configuration management tools such as Ansible, Vagrant, Docker, etc.
* Good understanding of Ansible, for configuring and managing computers, combining multi-node software deployment, ad hoc task execution, and configuration management.
* Experience with setting up Chef Infra, Bootstrapping nodes, creating and uploading recipes, node convergence in Chef SCM.
* Experienced with Windows, Linux/UNIX environments and scripting for Build & Release automation.
* Hands-on experience on minor & major upgrades physical to virtual environment (VMware).
* Experience on installation of Apache Tomcat, MySQL and Nginx. Written Chef cookbooks and recipes to install and configure these packages.

TECHNICAL SKILLS:

* Language/scripts: HTML, Shell, Bash, Python
* Web Service: REST, SOAP
* Web/App Servers: Apache Tomcat, Nginx, Jboss
* SDLC: Waterfall, Agile/Scrum
* Cloud Infrastructure: AWS (EC2, Cloud watch, ELB, Auto Scaling, S3, Route 53, SNS, IAM,

Cloud Formation, ACM, SES)

* DevOps Tools: Jenkins, GitHub Enterprise, Splunk, Chef, Docker, Confluence, JIRA,

Slack, ServiceNow, Trello, Maven, JFrog, Nexus, Bit bucket, Grafana, PyCharm, Ansible, Puppet, Packer, Sublime Text, Eclipse, IntelliJ IDEA, VMware, Gradle.

* Platforms: Windows, Linux (Ubuntu/Centos), Mac OSX

**Professional Experience:**

**EXPEDIA GROUP INC. Bellevue, WA June 2018 – Present**

**APPLICATION ENGINEER I (DevOps)**

**Project Name: Core Automation and Reliability Engineering (CARE)**

**Description:**

The project focuses on building and implementing automation and self-service solutions for capabilities that enhance developer productivity, so that the customers and partners can focus on their core missions without friction or downtime.

**Achievements:**

* Migrated applications from traditional datacenter to cloud platform AWS.
* Developed Chef cookbooks and recipes to configure, deploy, and maintained software components of the existing infrastructures such as Jenkins, Splunk.
* Supported the organizations’ Splunk Environments.
* Wrote numerous shell scripts and Jenkins jobs to automate and streamline existing manual build and deployment processes.
* Prioritized projects in an organized way using Trello.
* Monitored performance, system resource utilization and capacity planning performance using AWS CloudWatch, Splunk and Grafana.
* Build One Click Jenkins CICD in less than 10 minutes, using CloudFormation, and Docker.

**Technologies:** Jenkins, Splunk, Maven, JFrog, AWS (EC2, S3, IAM, ACM, CloudFormation, Security Groups, VPC, Key pair, Route53), Chef, Jira, ServiceNow, GitHub, Grafana, Confluence, Nexus, bash/shell scripting, Trello, Slack, IntelliJ, Linux

**THE ANDOVER COMPANIES, Andover, MA Dec 2017 – June 2018**

**DevOps Engineer**

**Project Name: Payment Portal**

**Description:**

This project focuses on designing a payment and claim service for insured customers built on complete AWS cloud platform using devops tools to make releases 50% faster to the market.

**Achievements:**

* Developed own custom AMIs for provisioning EC2 servers using packer through json files.
* Work on Splunk and Grafana for monitoring backend and frontend application performance, develop custom monitor for the crucial metrices such as JVM usage, threads count and garbage collection.
* Worked on GitHub and maintaining individual repositories for front-end, backed-end microservices and infrastructures codes including branching strategies, tagging strategies and every commit follow-up with peer review.
* Developed own base groovy library of CICD pipeline for build and deployment purpose using Jenkins and implemented shared groovy library concept using own groovy library to avoid replication of code among the development stages.
* Made releases 50% faster to the market.
* Actively transformed an application running on server to a container-based deployment.
* Architected and deployed major applications on AWS.
* Worked on terraform templates and workspaces for automated building of required AWS services such as VPC, security groups, EC2, ELB, Route 53, CLB, Subnets etc.

**Technologies:** Jenkins, Maven, Docker, Jira, Splunk, GitHub, Confluence, Nexus, Groovy, Packer, Linux, AWS services.

**Wells Fargo, Des Moines, IA Sep 2015- November 2017  
DevOps Engineer**

**Project Name: Wells Fargo Commerce Exchange**

**Description:**

This project intends to build a search engine that can host, indexed, 360-degree Merchant Outlet Information for Intelligent Merchant lookup by bringing CI/CD flavor into Engine evolution.

**Achievements:**

* Configured Jenkins with maven builds tool in generating war/ear files and archived them to Nexus repository with. versoins.
* Integrated Git, Jenkins and maven in accomplishing continuous integration and configured Jenkins with Poll SCM build trigger.
* Configured EC2 instances with Playbooks to enable environment for deployment.
* Created Jenkins jobs and distributing load on Jenkins server by configuring Jenkins nodes which will enable parallel builds.
* Deployed artifacts into servers in AWS cloud with ansible and Jenkins
* Maintained backup of Jenkins builds in AWS s3 and versioned every backup.
* Enabled robust virtual private cloud to ensure the network isolation from public cloud and securing them with Security groups and NACL.
* Involved in writing Docker files to build customized images for creating containers.
* Bundled automation content with Ansible roles to make the content reusable and made possible advanced execution in automation.
* Deployed builds to different environments like DEV, QA, UAT environments by integrating Jenkins and Ansible.

**Technologies:** Jenkins, Maven, Nexus, Jira, GitHub, Docker, Confluence, AWS (EC2, S3, IAM, ACM, CloudFormation, Security Groups, VPC, Key pair, Route53), bash/shell scripting, Linux, Windows, Ansible

**Bent Ray Technologies. Nepal Aug 2013 – July 2015**

**Linux System Administrator**

**Description:**

This project focuses on automating tools to perform daily routine system administration tasks, systematically reducing manual toil such as management of Linux systems and server applications; this includes; build, setup, configuration, routine patching, general maintenance, monitoring, and troubleshooting of all Linux systems in a VMWare environment.

**Achievements:**

* Installed and configured Ubuntu, Centos on remote servers and Desktop servers.
* Installed and configured Apache/Tomcat web server.
* Created and modified users and groups with SUDO permission.
* Worked with developers to load software onto Linux Enterprise servers and also debugging Scripts.
* Setup and administered user and groups accounts, setting permissions for users.
* Diagnosed and resolved problems associated with DNS, DHCP, VPN, NFS, and Apache.
* Performed OS upgrades and installation of third-party software, packages and patches as per requirement.
* Maintained the Linux Firewall for network and implement to the network security.
* Troubleshooted the network with the help of net stat, ping, nslookup and trace route tools.
* Developed, maintained, updated various scripts for services (start, stop, restart, recycle, Cron jobs) UNIX based shell.
* Responsible for configuring and connection to SSH through SSH clients like Putty and Iterm.
* Set up cron job to regularly manage backup process for server and client data.

**Technologies:**  Jira, GitHub, Confluence, Nexus, bash/shell scripting, IntelliJ, Linux

***Key Courses:*** *Enterprise Data Management, Decision Support System, Current Trends and issues in Information Technology, Strategic Management of Information Technology, Enterprise Data Management*