**Diagram

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**Varun K**

**Professional Summary:**

Around 7 years of IT experience in Azure, Aws/DevOps engineer with expertise in the areas of Build and Release Management, Continuous Integration, Continuous Deployment, Automation, Version Control, and Linux/Unix administration.

* Experienced in **Amazon** Web Services cloud platform and its services like **EC2, S3, RDS, Lambda, VPC, EBS, ELB, SNS, SQS, Glacier, Cloud Front, IAM, Security Groups, Route53, Kinesis and Auto Scaling.**
* Extensively worked with AWS EC2 instances such as **Ubuntu server**, **Amazon Linux AMI**, **SUSE Linux**, **Red Hat Linux Enterprise**, **Microsoft Windows Server.**
* Hands-on experience in setting up **databases**in AWS using **RDS**, **storage**using **S3 bucket**and configuring instance backups to S3 bucket to ensure fault tolerance and high availability.
* Created **CI/CD** Pipelines in the **AZURE** DevOps environment by providing their dependencies and tasks. Also created **Azure** key-vault to store all the credentials for SQL databases and API keys.
* Experience in working with **Azure** Cloud Services like **Compute** (Web and Worker Roles), **Storage (Block Blob), Azure Active** **Directory, Virtual Machines, Delivery Network, and Fabric Controller.**
* Extensive experience on **Azure** services like **ARM** templates, SQL Warehouse, Resource Groups, Express Route, Traffic Manager, Load balancers, Auto Scaling, and Power Shell Automation.
* Experience in implementing **Google Cloud Platform** (SaaS, PaaS, and IaaS) services like **Compute Engine, Storage, Cloud Functions, DNS,** and Cloud Deployments.
* Involved in setting up Kubernetes (k8s) clusters with CloudFormation templates and deploy over AWS Elastic Kubernetes Services **(EKS)** and Azure Kubernetes Services **(AKS)** and monitor the health of several microservices pushed into production pods using provisional tools.
* Experienced with scheduling, deploying, and managing container replicas onto a node cluster using **Kubernetes** and worked with building K8’s run time environment of the CI/CD system to build, test & deploy in an open-source platform.
* Wrote **Terraform to** manage a practical infrastructure for deploying development and production versions of a two-tier application.
* Created **Terraform** modules to automate process of creation of resources in AWS.
* Experience working on several Docker components like **Docker Engine, Docker Hub**, creating **Docker images**, Compose**, Docker Registry** and pushing them into the **docker hub** and handling multiple images primarily for middleware installations and domain configurations.
* Configured and managed multiple containers using **Docker,** run applications by Docker **Compose**, and used Docker **Weave** for communication between containers.
* Wrote **Ansible playbooks**, inventories and custom playbooks using **YAML**, and encrypted them using Ansible Vault and maintained role-based access control by using Ansible Tower.
* Maintained **Ansible** playbooks using **Ansible** roles, utilized file module in Ansible playbook to copy and remove files on remote systems.
* Extensively worked with **Puppet** on developing **Manifests** and **modules** to automate infrastructure provisioning and configuration management across multiple nodes in the cluster.
* Experienced in using **Chef** recipes, **Chef** templates, **Chef** attributes and **Chef** files for managing the configurations across various nodes, build, design, and maintain the platform automation using **Chef** and Involved in setting up Chef Workstation, Nodes, Cookbooks, and Recipes using Ruby Scripting.
* Hands-on experience with Continuous Integration and Continuous deployment using the tools **Jenkins, Chef and Docker.**
* Experienced in Setting up Continuous Integration (CI) to configure, Build, Deploy and test automation Jobs in **Jenkins** for different applications and while creation and deployment using Codeship to automate branch & project creation in Git using **Groovy**.
* Proficient in building deployable Artifacts using Nexus or JFrog artifactory and maintain them using Maven (pom.xml), Ant (Build.xml), and Gradle with Groovy scripts to automate configurations in Jenkins.
* Experience in working with version control systems such as **Subversion, GIT** and used Source code management tools like **GitHub, GitLab, Bitbucket.**
* Experience in maintenance and administration of source control management systems such as **GIT** and **Sub Version**, created tags and branches, fixed merge issues and administration software repositories.
* Extensive experience with Web/Application servers such as **Apache Tomcat, Google App Engine, IBM WebSphere, Nginx, WebLogic and JBoss.**
* Expertise in Linux system builds, administration, Installations, Upgrades, Troubleshooting on different distributions such as Ubuntu, CentOS, Red Hat, RHEL.
* Extensive Experience with monitoring tools such as **Splunk, Nagios,** **Zabbix, New Relic, ELK (Elasticsearch, Logstash and Kibana) and Cloud Watch** for log trace monitoring.
* Used **Cloudtrail and CloudWatch** for monitoring AWS cloud resources and the applications deployed on AWS by creating new alarm, enable notification service.
* A strong foundation of the principles and best practices of Software Configuration Management in **waterfall**, **Agile** and **Scrum** methodologies.
* Expertise in improving builds & deployments through automation using scripting languages such as **JavaScript, Shell, Bash,** **Perl, JSON, Ruby, Groovy,** and **Python,** etc.
* Exposure to all the phases of Software Development Life Cycle (**SDLC)** such as Analysis, Planning, Development, Testing, Implementation, Post-production analysis of the projects.
* Exposure to the various ticketing tools such as **JIRA**, **Service Now**, **VSTS** (Azure DevOps), and as well as defect tracking system and configure various workflows, customizations.

# Technical Summary:

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| --- | --- |
| Cloud Platform | AWS, Azure, GCP |
| Infrastructure as Code | ARM Templates, CloudFormation, Terraform |
| Virtualization | VMware Virtual Box, Windows Hyper-V |
| Version Control System | Subversion (SVN), GIT, Bit Bucket, GitHub, Gitlab |
| Build Tools | ANT, Maven, Gradle |
| CI/ CD Tools | Jenkins, Bamboo, TeamCity |
| Configuration Management Tools | Ansible, Chef, Puppet |
| Containerization Tools | EKS, AKS, Docker, Kubernetes |
| Web/App Servers | Apache Tomcat, Web Logic, Web Sphere, JBoss, Nginx |
| Tracking Tools | JIRA, Service Now, VSTS (Azure DevOps) |
| Web Technologies | HTML, JavaScript, CSS, JSON, JSP, XML |
| Databases | MYSQL, SQL Server, DynamoDB, Cassandra |
| Monitoring Tools | Splunk, Nagios, Zabbix, ELK, CloudWatch, New Relic |
| Programming/Scripting Languages | Python, PowerShell, Bash, Ruby, YAML, JSON, Groovy, Perl |
| Operating Systems | Windows, Linux, UNIX, RHEL, CentOS |

**Professional Experience:**

**Invesco - Houston, TX Jan 2020 – Present**

**Azure DevOps Engineer**

**Responsibilities:**

* Involved in **Azure** Cloud Services (PaaS & IaaS), Web Apps, Logic Apps, Active Directory, **Azure** Monitoring, Storage, Data Factory, Key Vault, Traffic Manager, Application Insights, OMS, Service bus, Visual Studio Online (VSO), Cognitive Services (LUIS) and SQL **Azure**.
* Designed and created **Azure** virtual machines, Implement, and manage virtual networking within **Azure** and connect to on-premises environments and Implemented high availability with **Azure** Classic and **Azure** Resource Manager deployment models.
* Implemented **Azure** cloud integrations of enterprise architecture using Active Directory, **Azure** Service Bus, **Azure** Storage, **Hybrid Connection Manager**, and **Azure** SQL server.
* Used **Azure** SQL and SQL Clusters. Uploaded VHD files into **Azure** Storage Account using AZ Copy, Release Management and Build Automation with **Azure**-DevOps Developed automation scripts using Power Shell, supporting multiple hosts and VMs for **Azure** cloud deployments.
* Experience in **Hybrid Cloud** and **Private** cloud configurations, patterns, and practices in Windows **Azure** and SQL **Azure** and in Azure web and database deployments.
* **Python** Web applications are Deployed and Optimized into **Azure DevOps CI/CD** to focus on development by using services such as Test Plans to unit test, Repos to commit codes, deploy App Services. The usage data of the process and Health performance is collected by **Azure** Application Insight.
* Managed **Azure Container Registry** to store private Docker images, which are deployed, and Azure pipelines to build, test, and deployments. Application Insight to collect metrics, queries.
* Performed cloud **migration**, managing both classic & ARM portal, effectively use Power Shell to manage **Azure** services, troubleshooting access related issues.
* Configured **Azure** Cloud Infrastructure to take VM level backups using the **ARM** templates by creating groups and users using IAM and protect the VMs using **Azure** Backup vault.
* Configured Web apps/Function apps, V-net integration, IAM, Application gateway, AppInsights, Active directory, Azure Key Vault, Encryption and Security on AZURE using **ARM** templates and Power shell script.
* Wrote **Ansible** Playbooks, Inventories and custom Playbooks using **YAML** (Yet Another Markup Language) and maintained role-based access control using **Ansible Tower**, and encrypted, decrypted using **Ansible Vault**.
* Creating roles using **Ansible galaxy** that can be reused and to manage Web Application, Config Files, Packages and Users Mount Points.
* Created **Ansible** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Managed, Created, and updated the **Docker** Containers for deploying the applications in different environments.
* Utilized **Azure Kubernetes Services** **(AKS)** to provision Identity and Access Management (IAM) solutions to implement Single Sign-On (SSO) for applications on Azure cloud.
* Used **Kubernetes** to automate the deployment, scaling, and operations of application containers across clusters of hosts.
* Managed **Kubernetes** Manifest files and releases of Helm Packages and created reproducible builds of **Kubernetes** applications, Managed **Kubernetes** charts using Helm.
* Used **Kubernetes** to build and manage Pods, Config Maps, and deployments into the cluster.
* Responsible for Continuous Integration and Continuous Delivery process implementation using **Jenkins**/Hudson along with Python and Shell scripts to automate routine jobs.
* Automated Continuous Integration/Continuous Deployment with **Jenkins**, build-pipeline-plugin, Maven, Docker, GIT, setting up Jenkins master/slave to distribute builds on salve nodes.
* Managed **GIT** in branching, tagging, and maintaining the version across the environments using **SCM** tools like GIT.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects and environments. Built applications using **Maven**, **Gradle** **scripts.**
* Involved in building and deploying **EAR/WAR** files with configuration settings. Deployed the archives to **Apache Tomcat** web server and **Web Sphere** Application Servers.
* Build application artifacts using **Maven** by configuring required profiles, plugins, and dependencies in **POM.xml** and associate the builds with an open-source repository like JFrog Artifactory using **settings.xml.**
* Hands-on experience with **Splunk** searching and Reporting Modules, knowledge Objects, Administration, add-ons, Dashboards, Clustering and Forwarder Management, Visualizations, alerts, reports.
* Performed Installation of **Splunk** Enterprise, forwarders, Indexer, Configuration management, license management, data integration, data transformation, field extraction, event parsing, data preview, and Apps management of **Splunk** platform.
* Created and Maintained **Splunk** DB connect Identities, Database Connections, Database Inputs, Outputs, lookups, access controls.
* Written **bash scripts** to deploy the Java based packages like EAR and WAR on the WebLogic Application Server.
* Wrote **PowerShell scripts** and designed **ARM** templates to automate provisioning and deploying VM's, Storage, Network, and Affinity Group.
* Installed Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
* Working knowledge/exposure in **TOMCAT APACHE**, **WEB LOGIC & WEB SPHERE,** formulated and executed designing standards for DNS servers.
* Worked on Performance Monitoring, resolving network issues & Tuning the system using tools.
* Experience in installation, configuration and administration of VMware based virtual servers using ESX/ ESXi servers, vSphere, and Virtual Center.
* Worked on Linux Utilities: SSH, FTP, User, Process, Memory, Package, Disk, and Log Managements and Swap Partition/Files Management.

**Environment & Tools**: Linux, Maven, Nexus, Git, Jenkins, Ansible, Docker, Kubernetes, Splunk, Web Sphere, Nagios, Azure, VPC, Terraform, Shell Scripts, Python, Unix/ Linux environment.

**SCAN Health Plan – Long Beach, CA Mar 2019 – Jan 2020**

**AWS/DevOps Engineer**

**Responsibilities:**

* Involved in **AWS** provisioning and good knowledge of AWS services like EC2, S3, RDS, Lambda, VPC, EBS, ELB, SNS, SQS, Glacier, Cloud Front, IAM, Security Groups, Route53, Kinesis and Auto Scaling.
* Designed roles and groups using **AWS** identity and access management **(IAM**), and manage a network using Security Groups, Network Access Control Lists with services provided by **IAM.**
* Designed highly scalable, available, and fault-tolerant infrastructure using **AWS EC2** instances, **AMIs,** Elastic Load Balancer **(ELB),** Auto Scaling, and **Glaciers** for provisioning QA and UAT environments.
* Provide high durability of the available data using data storage in the **AWS S3** bucket, versioning **S3**, lifecycle policies. Also, Webhosting the data from the **S3** bucket by creating URL's.
* Configuring and Networking of **Virtual Private Cloud (VPC**). Written Cloud-Formation templates and deployed **AWS** resources for development, test, staging, and production.
* Created Python Scripts to fully automate **AWS** services which include **ELB**, Cloud Front distribution, **EC2,** Security Groups, and S3. This script creates stacks, single servers and joins web servers to stacks.
* Worked on creating **AWS Lambda** functions that manipulate data for incoming events, store the generated results in **AWS S3** by sending emails through **SNS** by setting up triggers.
* Created **lambda** and wrote lambda function in java script to stream the data from S3 bucket to Elasticsearch.
* Implemented a 'server less' architecture using API Gateway, **Lambda** and Dynamo DB & deployed AWS **Lambda** code from Amazon **S3** buckets.
* Excelled on creating **AMI** (AWS Machine Images) that utilizes **ELB** (Elastic Load Balancer) and Auto Scaling.
* Implemented and configured **Terraform** modules for deployment of various applications across multiple cloud providers and managing infrastructure.
* Created AWS cloud infrastructure using **Terraform** modules to automate VPC-VPN creation from the data center to the production environment and VPC peering.
* Ensured high-availability, fault-tolerant, and auto-scalable system/servers using **Terraforms** by managing security groups along with CI/CD using AWS Lambda and AWS Code Pipeline.
* Built/deployed custom Docker images from Artifactory into AWS Elastic Kubernetes Services **(EKS)** K8s cluster as part of a Continuous Integration (CI) pipeline.
* Configured **Kubernetes** Plugin for Jenkins agents to be dynamically provisioned on a **Kubernetes** cluster.
* Working with **Kubernetes** deployments, **Kubernetes** volumes, **Kubernetes** network policy, command-line utilities of Kubernetes Kubectl.
* Worked on container-based deployments using the **Docker** images and **Docker** registries, pulled the required images from **Docker** Hub. Used **Docker** for avoiding the environment difficulties between Developers and Production.
* Integrated **Docker** container orchestration framework using **Kubernetes** by creating pods, config Maps, deployments.
* Ran **Ansible** playbooks and created various roles for applications, then deployed the Applications/Services on hosts.
* Developed **Ansible** playbooks, inventories and custom playbooks using **YAML**, and encrypted them using **Ansible** Vault and maintained role-based access control by using **Ansible** Tower.
* Maintained and tracked inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Worked with the groovy scripts in **Jenkins** to execute jobs for a continuous integration pipeline where 'Groovy Jenkins Plugin' and 'Groovy Post-Build Action Plugin' is used as a build step and post build actions.
* Experienced in using **Nexus** by maintaining the artifact repository and moving the builds using Jenkins. Deployed applications (WAR, JAR and EAR) on JBoss and Tomcat servers.
* Setup SCM Polling for Immediate Builds with **Maven** and **Maven Repository** (Nexus Artifactory) by installing Jenkins Plugins for GIT Repository.
* Setting up the **SVN** and **GIT** repos for **Jenkins** build jobs and wrote **groovy script** to implement pipeline and multi-pipeline jobs and integrating with **GIT**.
* Responsible for design and maintenance of the **GIT** Stash Repositories, views, and the access control strategies.
* Created dashboard in **New relic** console for the monitoring purpose.
* Using **New Relic**, it provides clear visibility into the end users experience through **real-user** monitoring, **synthetic** monitoring, and **mobile app** performance analysis.
* Configured and ensured connection to RDS database running on MySQL engines.
* Installed and configured **Apache Tomcat** on Red hat Linux, Ubuntu, and Amazon Linux instances.
* Experience in **RPM** and **YUM** package management (installation and upgrading), Yum Repository creation and management, patching.
* Used **Python** scripting for automation, highly scalable, build promotions for staging to production.

**Environment & Tools**: RedHat, Ubuntu, Maven, Jenkins, BASH, PowerShell, Groovy Script, APACHE TOMCAT, Python, Ansible, Docker, Kubernetes, JBOSS, AWS, S3, ELB, IAM, VPC, Lambda, MYSQL.

**Sallie Mae Bank – Newark, DE July 2017 – Dec 2018**

**Cloud/DevOps Engineer**

**Responsibilities:**

* Used **Simple storage services** **(s3**) for snapshot and Configured **S3** lifecycle of Applications & Databases logs, including deleting old logs, archiving logs based on retention policy of Apps and Databases.
* Configured and managed **AWS Glacier**, to move old data to archives based on the retention policy of databases/applications (AWS Glacier Vaults).
* Used **AWS Lambda** and **Amazon Kinesis** to process real-time streaming data for application activity tracking, transaction order processing, clickstream analysis, data cleansing.
* Controlled the cost and expenses on AWS Services by creating the **AWS Instance scheduler** by 70% of the AWS Cloud Services bill.
* Used **GCP** for Redundant backups and improve performance and Deployed applications on **Google Cloud Platform** using Kubernetes Engine and numerous google vision API.
* Performed developing and hosting web applications using the App engine in the **Google cloud platform**.
* Designing and creating the **Cloud Formation Template** to automate the process of application deployments.
* Configuring and Networking of Virtual Private Cloud (VPC) Written in **Cloud formation templates** and deployed AWS.
* Created **Cloud Formation Template** which will spin up EC2 instance and install TeamCity on the EC2 instance.
* Used **Docker** container services like creating **Docker** files, **Docker** Images, **Docker** Container snapshots, attaching to a running container, removing images, and managing directory structures.
* Experience with **Chef Enterprise** and hosted as well as on-premises, Installed Workstation, Bootstrapped Nodes, Wrote Recipes, Cookbooks, and uploaded them to **Chef-server**.
* Written **Chef Cookbook** recipes to automate the installation of middleware infrastructure like Apache tomcat, JDK and configuration tasks for new environments etc. and reused and modified the same **Chef Recipes** to create a Deployment directly into Amazon EC2 instances.
* Installed **Chef** to reduce management complexity by defining cookbooks and recipes for installation, file management and application deployment on various nodes.
* Used **TeamCity** for Continuous Integration servers Automation and Administration.
* Used **TeamCity** to combine multiple builds and form a chain of builds, which is a powerful way to orchestrate an entire continuous delivery solution.
* Used **TeamCity** to deploy the application during the build.
* Used **ANT** and**MAVEN** as build tools on Java projects for the development of build artifacts like .war and .ear files.
* Integrated **Maven** with **TeamCity** to generate builds and manage the artifacts using the **JFrog** Artifactory repository for the continuous integration process.
* Administered the Maven Repository using the **Jfrog** Artifactory tool and used the same to share the snapshots and releases of internal projects.
* Experience in working on source controller tools like **GIT**, **Subversion** (SVN), creating branches, tags, merging, giving user permissions in both GIT, SVN.
* Involved in setting up JIRA as defect tracking system & configured various workflows, customizations, and plugins for the JIRA.
* Used **Nagios** as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on **Nagios** Event handlers in case of an automatic restart of failed applications and services.
* Implemented and configured **Nagios** for continuous monitoring of applications in the production environment and enabled notifications via emails and text messages.
* Setup **Nagios** for monitoring the infrastructure, also used **Nagios** Handlers, which acts on the service status with pre-defined steps/scripts.
* Written necessary bash shell scripts to automate processes using crontab, install and upgrade software.
* Developed automation and deployment utilities using Ruby, Bash, PowerShell, Python.
* Installing, managing, troubleshooting, securing, configuring, and tuning critical servers on Linux platforms.

**Environment & Tools**: GIT, SVN, Maven, ANT, TeamCity, Docker, Chef, Jira, Nagios, TOMCAT, Python Scripts, Ruby Scripts, Shell Scripts, RedHat, CentOS, Ubuntu, JFrog, GCP, Cloud Formation Template, AWS, EC2, S3, Lambda, Glacier, Kinesis.

**AutoZone – Memphis, TN Sep 2015 – July 2017**

**Build and Release Engineer**

**Responsibilities:**

* Install/Configure/Manage **Puppet** Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from **puppet-forge**.
* Worked with configuration management tools like **Puppet** to implement/maintain **puppet** manifests for configuring and automating the process of setting up tools/Libraries in a Virtual machine server environment.
* Managed **Puppet** classes, resources, packages, nodes, and other common tasks using **Puppet** console dashboard and live management.
* Configured **Bamboo** for Continuous Integration by setting up automatic polling of repository for new code changes and automating builds based on it.
* Setup Deployment projects in **Bamboo** and created various environments like Integration (automatic deployment) and QA/Production (single-click deployment).
* Used **Bamboo** that allows developers to automatically build, integrate, and test source code, then prepare the app for deployment. **Bamboo** also works seamlessly with Atlassian’s other tools like Jira (project management).
* Worked on **GIT** which includes developing branches, staging branches, master, push, pull requests, and code reviews are performed.
* Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like **GIT,** **Subversion** (SVN) on Linux and Windows platforms.
* Involved in repository management in **ANT** to share snapshots and releases of internal projects using Nexus tool.
* Worked with **ANT** tool to do the builds and integrated with **Bamboo** for the builds as the continuous integration process.
* Updated **VMware** using VMware update manager and installed patches and updates on ESX hosts and Virtual Machines.
* Configured the virtual machine for different applications in the VMware environment.
* Involved in troubleshooting Network, memory, CPU, swap &file system issues, TCP/IP, NFS, DNS and SMTP in Linux Servers.
* Configured RedHat Linux systems over the network, implemented automated tasks through Crontab and resolved tickets according to the priority basis.
* Responsible for the day-to-day administration and administration of RHEL & CentOS which includes installation, testing, tuning, upgrading, and loading patches, troubleshooting.

**Environment & Tools**: GIT, ANT, Bamboo, Puppet, Maven, Nexus, TCP/IP, NFS, SMTP, RedHat, CentOS 6VMware ESX.

**The Smart Bridge - India June 2014 – Sep 2015**

**Linux Administrator**

**Responsibilities:**

* Managed and administrated all **UNIX** servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using Red Hat Satellite server, **YUM**, **RPM** tools.
* Involved in system administration tasks such as user/group account management, LVM, file systems, disk management, load balance monitoring on servers and server health checks.
* Worked on **Linux** utilities like tar, gzip, FTP, TELNET, SCP, RSYNC, SSH, NFS, Crontab.
* Worked on **SSH** Key generation and exchanging with remote servers for password less authentication.
* Writing **Shell** scripts for automation of daily tasks, documenting the changes that happen in the environment and in each server, analyzing the error logs, analyzing the User logs, analyzing the /var/log/messages.
* Installed **Red Hat** Linux using kick-start and applying security policies for hardening the server based on the company policies.
* Assisted in resolving hardware issues and network connectivity issues related to **TCP/IP.**
* Created and modified application related objects, created profiles, users, roles and maintained system security.
* Performed OS installations, OS Upgrades, and Server Patching by configuring PXE and **DHCP** server using Kickstart Configuration and by using Red Hat Satellite server.
* Implemented the file sharing on the network by configuring **NFS** on the system to share essential resources.
* Involved in setting up Network File Services **(NFS),** Network Information Services (NIS) and protocols in RHEL.
* Performed kernel and database configuration optimization such that it limits I/O resource utilization on disks.
* Responsible for configuring and managing DNS, DHCP, NFS, FTP, SSH, LDAP and NIS in Linux.

**Environment & Tools:**  Red Hat Linux, MySQL, TCP/IP, DNS, DHCP, NFS, FTP, SSH, LDAP, NIS, LVM, Bash, Shell Scripting, Apache, Cronjob, WebSphere, YUM, RPM.

**Education:**

**Master’s in Computer Science:** Texas A&M University -Kingsville, TX.