**Harshil A**

**AWS/DevOps Engineer**

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**(213)-328-7660**

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| **PROFESSIONAL SUMMARY** |

* Around 8+ years of experience in the IT industry with extensive working experience in Linux and System administration, DevOps tools, and experience in AWScloud services.
* 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), Continuous Integration(CI), Continuous Delivery(**CD**), **Cloud, Infrastructure** as Code, Infrastructure Provisioning, Orchestration, Monitoring, Alerting, and Service Level Dashboards.
* Expertise in installation, administration, configuration, performance tuning, and troubleshooting of RedHat Linux, CentOS, SUSE, Ubuntu, Solaris, and Windows.
* Expertise in Amazon AWS Cloud Administration which includes services like **EC2, S3, EBS, VPC, ELB, AMI, SNS**, RDS, IAM, Route 53, Autoscaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.
* Experience working on **Docker** hub, creating **Docker images,** and handling multiple images primarily for middleware installations and domain configuration.
* Good experience working with container orchestration tools Apache Mesos, Marathon, Kubernetes.
* Experience in building private cloud infrastructure of OpenStack, deploying through a puppet, and maintaining them in production. Also, have tested the OpenStack environment i.e. Nova, Swift, Cinder, Horizon, Keystone, & Glance.
* Experience in working on Jenkins**, Cruise Control, Team City, Terraform, Bamboo,** and **Hudson** for continuous integration and End to End automation for all Build and Deployments.
* Extensively worked with Version Control Systems GIT, CVS, SV(Subversion), Clear Case Perforce, Bit Bucket, and IBM Rational Team Concert.
* Experienced in implementing and maintaining an **Apache Tomcat /MySQL/PHP, LDAP, LAMP** web service environment.
* Experienced in monitoring tools like Nagios, Sensu, Zabbix, and Splunk.
* Experienced in Virtualization Technologies for Server, DC, and VPC environments including **VMware ESXi 5.x,** 6.x VMware vSphere, VMware vRealize, VMware VCenter Configuration Manager (**VCM**), Microsoft Hyper - V, **Citrix**, **KVM**, **CiscoUCS**, **PowerShell**, and Power CLI.
* Expertise in Querying **RDBMS** such **as Oracle, MY SQL, and SQL Server**.
* Extensive experience in designing and developing software applications with Microsoft Visual Studio and .NET Framework various versions using C#, ASP.NET.
* Experience writing and execution of **SHELL**, **Python**, and **BASH** and **PERL** scripts to automate the deployments.
* Good understanding of OSI Model, TCP/IP protocol suite (IP, ARP, TCP, UDP, SMTP, FTP, and TFTP).
* Good Experience in using **APACHETOMCAT**, **JBOSS**, **JETTY**, **WebLogic,** and **WebSphere** Application servers for deployments on Solaris and Linux boxes.
* Implemented and maintained CI environments (Jenkins/Hudson) in performing deployments, Packaging, Build optimization, production rollouts, staging, defect tracking (JIRA), and root cause analysis, Smoke testing, Operation support, and service delivery over web/app servers like JBoss, Tomcat and **WebLogic**, **MAVEN**.
* DevOps experience with **Puppet, Ansible, Chef, AWS** (OPS Work), and **OpenStack**.
* Implemented new RESTful APIs using the **Spring MCVC framework**.
* Provide SME in all areas of Cloud (IaaS, PaaS, SaaS) to existing and prospective clients on multiple cloud platforms **Azure/AWS** and various **PaaSplatforms** (Cloud Foundry/Open Shift).
* Designed, developed, implemented, and maintained custom Gradle tasks in **Java** and **Groovy**.
* Professional experience in Software Configuration Management (Release and Build Engineering / Configuration) on both Linux/Unix and Windows environments.
* Managed local deployments in **Kubernetes**, creating a local cluster and deploying application containers.
* Building/Maintaining Docker containers clusters managed by **Kubernetes Linux, Bash, GIT, Docker, on GCP**

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| **Technical Skills** |

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| **Languages** | Python, Ruby, Shell, Javascript, Bash, Perl. |
| **Build Tools** | ANT, GRADLE, MAVEN, DOCKER, Kubernetes, Jenkins, Team City, Puppet, Chef, and Ansible |
| **Amazon Web Services** | EC2, Simple Storage Service,Cloud Front, Relational Data Base, Virtual Private Cloud, Route 53, Cloud Watch, Cloud Trail, Identity and Access Management, Simple Notification Service, AWS EMR, AWS CLI. |
| **Monitoring Tools** | Cloud Watch, Nagios,Network Protocols WinSCP, SSH, VPN |
| **Cloud Services** | AWS, Microsoft Azure, Open Stack, |
| **CI/CD Tools** | GitHub, Git, SVN, Jenkins, Bamboo, Vagrant, Hudson, Cruise Control, Puppet, Chef, Docker, AWS, Ansible, Salt |
| **Database technologies** | Oracle, SQL Server, MySQL, NoSQL, MongoDB, Cassandra, DynamoDB |

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| **Education:** |

* Bachelor of Engineering in Information Technology.

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| **Project:1 AWS DevOps Engineer** |

**Amtrak,Washington,DC. Mar 2020 - Till Date**

**Description:**​​​​​​​​​​​​​​​​​​​​​The National Railroad Passenger Corporation, doing business as Amtrak, is a passenger railroad service that provides medium and long-distance intercity service in the contiguous United States and to nine Canadian cities.

**Responsibilities:**

* Working on the Disney Operations team as a critical resource and fixed many AWS cloud production and lower environment issues and on-prem break fixes as a dedicated operations resource.
* Leading a team of 7 resources both onsite and offshore with excellent command on the operations sustainment issues and also production and lower environment changes.
* Provisioning multiple guest-facing applications as part of guest experience dedicated provisioning team following Infrastructure as a code using Terraform deployed all the provisioned application to production Live and provided support after pushing them to live.
* Worked on provisioning multiple AWS cloud services like **ECS,EC2**,Targetgroups,Autoscaling groups, CloudWatch Alarms, and dashboards, **Route53,IAM roles,VPC** subnets, **CIDR** blocks,Security groups,SNS, and SQS services.
* Setup and Worked on the **AWS** Kinesis data stream to successfully receive the application and infrastructure logs and push them to Splunk for monitoring for the application team to easily find the issues and apply the fixes.
* Migrated application from the data center to AWS following lift and shift method using chef as a configuration tool to bring the system to the desired state to run the application.
* Dockerized many lifts and shift applications to support the AWS ECS environment which helps the application run continuously minimizing the failure and making it highly available and fault-tolerant by implementing the Autoscaling process and setting up CloudWatch Alarms.
* Working on setting up the AWS Lambda functions to create the automated jobs to sync the S3 buckets across the regions and also to run the critical production scripts for file transfers.
* Worked on the Redis Setup and troubleshooting the Redis issues the Application team facing.
* Worked as part of a confidential Star Wars Galaxy Edge park ride launch team for both Disney land and Walt Disney World to update the websites with the **FAQ** pages and launch dates to the production Live.
* Administered and supported .Net applications on **IIS.** Designed the **CICD** pipeline to automate .Net applications for Build and Deployments in Jenkins.
* Administered and Maintained Windows, **Rundeck, Chef, AHP**, **Jenkins**, **WebSphere,** GitHub Orgs, AWS, and **F5.**
* Developed Chef cookbooks to automate Jenkins instance setup on AWS.
* Worked with RM and Application Deployment Services teams for Builds and Deployments as part of the cloud provisioning team.
* Worked on F5 to add, edit, enable, disable, and remove the pool members and written **TMSH** scripts to create VIPs, Pools, Nodes.
* Experienced in **DevOps**, Build and Release, and Configuration Management on Linux and Windows platforms.
* Done cloud migration from physical data center towards Amazon Webservices **(AWS)** and had a good understanding of Public, Private, and Hybrid Cloud Environments.
* Experienced in Cloud provisioning, Configuration Management.
* Experience in fixing the release issues which are raised during the deployment.
* Used scripting languages Bash, Python, Power Shell for the automation, Ruby for developing Chef cookbooks, and used Groovy scripting for developing the Jenkins file.
* Monitor scalable infrastructure on Amazon web services (AWS) and configuration management using chef.
* Managing day to day activity of the cloud environment, supporting development teams with their requirements.
* Creating Labs, Virtual Machines along with setting up policies and using Formulas and Custom Images to deploy the network.
* Experience with Akamai Cloudlet Policy Manager to Add/Remove redirects using Edge Redirector.
* Experience with Akamai Property updates to add/remove rules for specific endpoints of a given site, for default and locales.

**Environment:** Java/J2EE, jQuery, Cucumber, Tomcat, Jenkins, Python, PowerShell, Ruby, AWS, ECS, Route53, VPC, EC2, IAM Azure, Nagios, Tomcat, Maven, Artifactory, Git, Linux, Chef, TMSH, MySQL, Sonar Qube, ANT, Docker.

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| **Project:2 AWS DevOps Engineer** |

**HBO, New York Jun 2018 - Feb 2020**

**Responsibilities:**

* Responsible for Implementation, design, architecture, and support of cloud-based server and service solutions.
* Managed multiple **AWS** accounts with multiple **VPC's** for both production and non-prod where primary objectives included automation, build-out, integration, and cost control.
* Utilized Cloud Watch to monitor resources such as **EC2**, **CPU memory**, **AmazonRDSDB** services, **Dynamo** DB tables, Elastic Block Store (**EBS**) volumes to set alarms for notification, or automated actions; and to monitor logs for a better understanding and operation of the system.
* Created **Kafka** and **RabbitMQ** clusters for **POC** in an OpenShift Environment for a messaging solution.
* Develop APIs in node.js and package it uses docker and deploy it using Jenkins (Conduit- in-house Jenkins shared library).
* Created S3 buckets and managing policies for **S3** buckets and Utilized S3 buckets for storage and backup on **AWS**. Extensive knowledge in migrating applications from the internal data center to AWS.
* Involved in migration from the current data center to Azure cloud and used **SQLAzure** for Backend operations and data persistence.
* Worked with the security team to make sure azure data is highly secure and configured BGP routes to enable ExpressRoute connections between on-premises data centers and Azure cloud.
* A unique experience with Pivotal Cloud Foundry (**PCF**) architecture and design, troubleshooting issues with platform components, and developing global/multi-regional deployment models and patterns for large scale developments/deployments on Cloud Foundry and AWS.
* Designed and distributed private cloud system solutions using Kubernetes (**Docker**) on **CoreOS** and used it to deploy scale, load balance, and manage **Docker** containers with multiple namespaced versions.
* Managed Kubernetes charts using **Helm**, and **Created** reproducible builds of the **Kubernetes** applications, managed Kubernetes deployment and service files and managed releases of **Helm** packages.
* Provided consistent environment using **Kubernetes** for deployment scaling and load balancing to the application from dev through production, easing the code development and deployment pipeline by implementing Docker containerization with multiple namespaces.
* Used **Ansible** as a configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and used **Ansible** Tower to monitor automation activity and manage cloud infrastructure.
* Used **Ansible** playbooks to manage Web applications, Environments configuration Files, Users, and Packages.
* Developed **Chef Recipes** to configure, deploy, and maintain software components of the existing/new infrastructure.
* Manage the configurations of nodes using **Chef**, configured **Jenkins** builds for continuous integration and delivery. Automated webserver content deployments via shell.
* Created an aggregated log search system using Log stash and Log stash-forwarder/Filebeat and Elastic search**.**
* Maintained Git repositories for company projects and set up automated testing and deployment using **Jenkins**.
* Skilled in using bug tracking systems like **JIRA**, **Remedy**.

**Environment**: AWS (EC2, VPC, ELB, S3, Amazon RDS, Cloud Trail and Route 53, GIT, VPC, Route53, Maven, Jenkins, EBS, SQL, ELB, Cloud Watch, Cloud Formation, Docker, Kubernetes, Chef, Ansible, Jira, Terraform, AWS CLI, AWS Auto Scaling, ELK Unix/Linux, Bash Shell script, Python, Chef, Apache Tomcat.

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| **Project:3 DevOps Engineer** |

**hCentive,Lakewood,CO** **Dec 2017 - May 2018**

**Description:** ​​​​​​​​​​​​​​​​​​​​​ hCentive, Inc., based out of Reston, Virginia, is a software development company specializing in cloud-based products for health insurers and state health agencies.

We help global companies run their mission-critical systems and operations while modernizing IT, optimizing data architectures, and ensuring security and scalability across public, private, and hybrid clouds.

**Responsibilities**:

* Created multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the **VPC**.
* Created and launched **EC2** instances using AMI’s of **Linux**, **Ubuntu**, **RHEL**, and Windows and wrote shell scripts to the bootstrap instance.
* Created Glass **Tables** in **SplunkITSI** for Intelligence Monitoring.
* Configured **Splunk** for dynamic analytics and machine data indexing
* Worked on Splunk search processing language, **Splunk** dashboards, and **Splunk DB**Connect app.
* Use Splunk to monitor and visualize the Kubernetes cluster **CPU** and memory usage.
* Used IAM for creating roles, users, groups and implemented **MFA** to provide additional security to AWS account and its resources.
* Written cloud formation templates in json to create custom **VPC, subnets, NAT** to ensure successful deployment of web applications.
* Automated applications and MySQL container deployment in Docker using Python and monitor them using Splunk.
* Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains, and environment setup.
* Used CI/CD tools Jenkins, Git/Gitlabs, Jira, and Docker registry/daemon for configuration management and automation using Ansible.
* Created Containers in Docker.
* Implemented domain name service (DNS) through route 53 to have available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using the Cloud Watch service.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
* Trained staff on the effective use of **Jenkins**, **Docker,** and **GitLab**.
* Created **CloudFormation** Templates for different environments (DEV/stage/prod) to automate infrastructure (ELB, CloudWatch alarms, ASGs, SNS, RDS, etc.) on click of a button.
* Worked on **Amazon AWS**, configuring, launching Linux server instances for Splunk deployment.
* Develop **Confluence** pages and manage **JIRA** tickets for an ongoing project.
* Created **Ansibleplaybooks** for provisioning, configuration management, patching, and software deployment in AWS environments.
* Created scripts in **Python** which integrated with **Amazon** API to control instance operations.

**Environment:**AWS (EC2, VPC, ELB, S3, EBS, RDS, Route53, ELB, Cloud Watch, CloudFormation, AWS Auto Scaling, Lambda, Elastic Beanstalk), JIRA, Confluence, Kafka, VMWare, RHEL, Gitlabs, Docker.

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| **Project:4 DevOps Engineer/Linux Administrator** |

**State Street Corporation, Quincy, Boston, MA** **Jun 2016 - Nov 2017**

**Description:** State Street is an American worldwide financial services company providing asset management, investment management and trading services to financial institutions.

**Responsibilities**:

* Created detailed documentation of complex build and release process, post-release activities process, **JIRA workflow,** and **Release notes.**
* Worked with SVN to manage source code repositories and performed branching, merging, and tagging depending on the requirement.
* Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including Autoscaling, and Cloud formation scripts.
* Administered Jenkins for Continuous Integration and deployment into Tomcat/Web Sphere Application Servers. Integrated builds with Code Quality Tools like **Cobertura, PMD,** and **Find bugs**.
* Extensive experience in JIRA for creating bugs **tickets, storyboarding**, pulling reports from the dashboard, creating and planning sprints.
* Experience working in VMware ESX (vSphere) 4.x, 5.x hypervisor for virtualization and installed different OS such as Linux (RHEL), SUSE, Windows.
* Troubleshooting file transfer issues across a range of platforms (Windows/Linux/MVS) and protocols (FTP, SFTP, Connect Direct, HTPPS, CFT). Completed approximately 120 Service Now tickets per month, translating to a high level of customer satisfaction.
* Communicated daily with external vendors and the internal business delivering a faster resolution of file transfer issues. Ability to write Shell & Perl scripting.
* Worked on **Grub, PXE boot, Kickstart, Packages, YUM, RPMs, LVM,** Boot from SAN, file system configuration.
* Maintained and administered Active Directory Servers, including daily monitoring, troubleshooting, and performance analysis.
* Maintain security for the networked environment while allowing users to access all data and software remotely.
* Configuring Sharding, monitoring, and identify the proper shard key Selection, inserting large amounts of data Performing Security measures, backups, and restore backups for MongoDB.

**Environment**:Splunk, Jira, Bootstrap, Code igniter, Open Cart, GIT, Linux Servers (Centos, Ubuntu), Solaris 10, Red hat Linux (6.2,5.6,5.5), JBoss,JMeter, Jenkins, Ansible, Kibana, SQL Server, Chef.

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| **Project:5 Software Engineer** |

**Quantum-BSO Tech Pvt Ltd - Bengaluru, Karnataka**  **Jul2014 - May 2016**

**Description:** Quantum is a global firm, dedicated to provide specialized management consultancy and innovative technology-enabled services for the shipping industry. Leveraging on our intimate knowledge of the shipping business our consulting vertical provides well thought out solutions to the shipping industry in the areas of strategy.

**Responsibilities:**

* Maintaining and Troubleshooting of **FTP Server, Samba Server** of the client.
* Handling the day-to-day Operations, install software, apply patches, manage file systems, monitoring performance, and troubleshoot alerts.
* Installation, configuration, and administration of **Jboss, Apache, WebLogic, Tomcat,** and **WebSphere**.
* Handling **LVM** related tasks, Creating, resizing LVM.
* Building & configuring **RedHat** Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority basis.
* Work with our customers to help design systems, architectures, and automation solutions and systems leveraging our **IaaS**,**PaaS,** and **XaaS** partners and software partners
* Acted as third-level support for Exchange and Active Directory end-user issues.
* Create role-based access and **SAML** based **SSO** authentication for Splunk.
* Creation of **SAN** File System on **Red Hat** Linux using multipath configuration.
* Implemented automation of DevOps tools (Chef and puppet).
* Creation, Installation, and administration of Red Hat Virtual machines in VMware Environment.
* Involved in the implementation of cloud services like **AWS**.
* Involved in implementation of **Perl** and **Python** scripting.
* Used source tools such as **SVN, GIT** to save and manage software code base and revisions in a repository.

**Environment:**Red Hat Linux (RHEL 4/5), Splunk, WebSphere, Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, MySQL, Chef, Puppet, SVN, GIT, AWS, DNS, NIS, NFS, Apache, Tomcat.

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| **Project:6Jr. Software Engineer** |

**Param Technologies - Hyderabad, Telangana Oct 2012 - Jun 2014**

**Description:** We are the leading home electrical specialist of the city having a vast portfolio comprising of power back up solutions that adhere to the versatile requirements of the clients. Our proven, trusted power management solutions meet the most critical requirements of the clientele and ensure to treat and meet all their demands with care and understanding.

**Responsibilities:**

* Installed, configured, and upgraded different Linux operating systems like RedHat, Ubuntu on VMware.
* Involved in administrative tasks such as system startup/shutdown, backup strategy, and documentation.
* Installation of patches and packages using RPM and YUM in Red hat Linux.
* Created and modified application related objects, created Profiles, users, roles, and maintained system security.
* Installed and configured **SAMBA** server for Windows and Linux connectivity.
* Monitored System Activities like **CPU, Memory, Disk,** and **Swap** space usage to avoid any performance issues.
* Modified **Kernel** parameters to improve the server performance in Linux.
* Installed and configured Apache / Tomcat web server.
* Involved in design, configuration, installation, implementation, management, maintenance, and support for the Corporate Linux servers **RHEL 4x, 5.x, SLES 9, CENTOS** 5.x.
* Coordinating with 24 x 7 on-call support personnel in debugging.
* Maintained proper documentation of all the activities carried out during the project
* Worked with DBA team for database performance issues, network-related issues on Linux Servers.
* Maintained proper documentation of all the activities carried out during the project.
* Created and modified users and groups with SUDO permission.
* Installed and configured VNC server/client.

**Environment:**Red Hat Linux (RHEL 4/5), Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, MySQL, DNS, NIS, NFS, Apache, Tomcat