**Saisantosh Vemula**

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**Professional Summary:**

* A Cloud enthusiastic team player having around **5+** years of experience in IT industry as a **DevOps/Cloud Engineer** with proven experience in involving cloud computing platforms like **Amazon Web Services (AWS), Azure, Continuous Deployment, Change/Release/Build Management, Linux System Administration, Support and Maintenance** in environments like Red Hat Enterprise Linux, CentOS
* Expertise in automating builds and deployment process using **Shell scripts and Python** with focus on **DevOps tools**
* Planned and worked on a hybrid cloud services program to leverage a **on**-**premises** cloud with public cloud services and from Cloud to Cloud such as **AWS** to **Microsoft** **Azure**
* Experience in DevOps tools such as **GIT**, **Maven, Jenkins, Ansible, Docker, Kubernetes, Terraform, Vault, SonarQube**
* Good Experience with **AWS Cloud platform** and its features which includes **EC2, VPC, EBS, AMI, IAM, ELB, SNS, RDS, EBS, S3, Auto Scaling, Cloud Front,** **Cloud Watch, EKS** and experience in Cloud Automation using **AWS cloud Formation** templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups
* Expertise in provisioning and Implementing **Azure Service** Offering, such as **Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Service Bus, Azure blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Monitor**
* Experience in **Kubernetes** to deploy scale, load balance, and manage Docker containers with multiple names spaced versions using **Helm charts**
* Strong understanding of and experience with **Java, C/C++**
* Strong understanding of web technologies like **JavaScript, JQuery, Spring and JSP**
* Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS). Configured ‘Kubectl’ to interact with Kubernetes infrastructure and used **AWS Cloud Formation Templates (CFT)** to launch a cluster of worker nodes on Amazon EC2 instances
* **Ruby scripting skills** create new, redesign, modify existing scripts to support and improve **Java-**based applications, data feeds, reporting, batch jobs, and overall system performance
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation
* Experience in creating **Docker Containers**leveraging existing Linux Containers and AMI's in addition to creating **Docker Containers**from scratch
* Automated configuration management and deployments using **Ansible playbook.** Experienced in developing **Ansible roles** and **Ansible Playbooks** for the server configuration and Deployment activities
* Developed **Maven and Gradle**Scripts to automate the build process. Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects
* Experience in automating deployment and administration of WebSphere Application Servers, **Tomcat, JBoss** and **WebLogic** Application Servers using console, via scripts and maintaining Load balancing and High availability
* Experienced in building, deploying and **integrating Java-based web applications in a UNIX,** includingexposure **to J2EE/.NET architecture (especially BEA Web Logic, Tomcat and WebSphere).**
* Expertise working as **AWS DevOps engineer/Build** and **release** engineer in field of release automation for **java** and **dot net** technologies to achieve **continuous integration** and **continuous delivery** (**CI** and **CD**)
* Extensively worked with automation tools like **Jenkins, TeamCity** to integrate tools (Maven, git, Selenium, Docker, Ansible, Puppet, Chef, and **Kubernetes**) to accomplish the goal and notify the status of the build by creating and mailing the reports to the members of team
* Experience with monitoring and logging tools like **Nagios, App Dynamic, Prometheus** and **Splunk** for monitoring network services and host resources
* Monitoring of OS-level parameters and application-level monitoring using **Zabbix, Datadog** and **Nagios**
* Proficiency in Multiple databases such as **MYSQL, SQL Server, PostgreSQL and MongoDB**
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **Subversion (SVN), GIT (GitHub) and Bitbucket**
* Closely worked with development, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building
* Organized and managed everyday administration tasks like adding and removing users, files, share permissions, trust management, replication management, Understanding the Demands of **24/7** System Maintenance server backups and server setups on LINUX

**Technical Skills:**

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| Operating systems | : | Linux (RHEL, CentOS, Ubuntu), Solaris, Windows variants, Mac OS |
| Infrastructure as a service | **:** | Amazon Web Services (AWS), Azure |
| Test, Build and Automation | **:** | Jenkins/Hudson, Chef, Ansible, Python, Maven, Ant, Hudson |
| Continuous Monitoring | **:** | Nagios, Cloud Watch, Prometheus, App Dynamic |
| Version Control Tools | **:** | Git, SVN, Bitbucket |
| Containerization | **:** | Docker, Kubernetes |
| Scripting Languages | **:** | Bash, Unix Shell-Bash scripting, Python, Java, Groovy, Ruby, YAML |
| Databases | **:** | MySQL, Oracle, Cassandra, AWS RDS |
| SDLC | **:** | Agile, Waterfall, Scrum |
| Application/Web Servers | **:** | Web logic, WebSphere, Tomcat, JBoss |
| Networking/Protocol: | **:** | TCP/IP, DNS, DHCP, NIS, NFS, LAN, WAN, SMTP, FTP/TFTP |

**PROFESSIONAL EXPERIENCE:**

***Client: NTT data Inc., Halifax, NS May 2020 – Present***

***Role: Software Development Specialist***

**Responsibilities:**

* Responsible for **design, implementation, management, and automation of the Azure public cloud offerings** for our client
* Assisted with the initial design, establish best practices, and provided proof of concepts for Azure Cloud Service deployments
* Major focus on **Configuration, SCM, Build/Release Management**, **Infrastructure as a code (IAC)**and as **Azure DevOps** operations Production and cross platform environments
* Developed function apps for various integrations between azure services
* Worked in a hybrid cloud environment that spans multi-tenant private datacenters and public cloud
* Worked on implementing backup methodologies by Power Shell Scripts for **Azure Services like Azure SQL Database, Key Vault, Storage blobs, App Services, Azure Functions** etc
* Experience in Azure PAAS offering, including azure integration services technologies such as Azure functions and azure service bus
* Used tools like **Visual Studio Community Edition**, **Visual Studio Code**, Power Shell ISE and SQL Server Management Studio
* Handle escalated Support tickets till closure for MS Azure PaaS platform, Configured AD connect to configure federation with on-premises ADFS and Azure AD
* Worked on Azure Storage options and made POC on it and documented it on confluence
* Developed DevOps CI/CD pipelines and setup Jenkins jobs for development on the azure service bus
* Created Azure services using ARM templates (JSON) and ensured no changes in the present infrastructure while doing **incremental** deployment
* Worked on ARM template rollback options and made POC on it and documented it on confluence

***Client: Rane Pharmaceuticals Inc., Edmonton, AB May2018– Feb 2020 Role: DevOps Engineer***

**Responsibilities:**

* Primary roles include **Build** and **Deployment** of the **Java applications** onto different environments like **Dev, QA, UAT, and Production in AWS**
* Creating Cloud infrastructure and implementing **CI/CD** pipeline **using GitHub, Jenkins, Maven, Chef on AWS** and handling the issues in AWS cloud environments
* Worked on core AWS services such as Setting up **EC2 instances**, configuring Security Groups, setting up Elastic IP's, Auto Scaling config, and Cloud Formation Templates
* Developed in a load-balanced and highly available manner utilizing automation AWS best Practices
* Jenkins is used as a continuous integration tool for build and deployment of **JAVA** code
* Wrote cookbooks and recipes and uploaded in chef server to deploy machines to the environment
* Deployment and Configuration of Application server (**Tomcat**) and Web server (**Apache**) for deploying **Java and Web Applications**
* Installed application on **AWS EC2 instances and configured the storage on S3 buckets**
* Developed Docker images using Dockerfiles, managing & monitoring Docker containers and Kubernetes clusters by using the very prominent tool: Prometheus
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, mavenization of java project and managing Maven repositories
* Created docker base images with different versions of **java and tomcat**
* Diagnose issues with Java applications running in **Tomcat** or **JBoss**, and installation and configuration of database like **MySQL** and **MongoDB**
* Experience in Linux/Unix- managing the Users and Groups, Service Configurations, Storage Management and used vagrant to simulate the production environment of our app or website
* Familiar with SQL, NoSQL databases and RESTful web services
* Implemented Blue/Green Pattern Deployment Methodologies and rollbacks with zero downtime
* Sole person to be responsible for creating Release Pages in Confluence to document the key information and for the deployments during Production nights

**Environment:** AWS, Subversion (SVN), Jenkins, Ansible, Java/J2EE, ANT, MAVEN, TC Server, Tomcat, WSO2 (DSS, ESB and API Manager), Shell Scripts, XML, Service Now, Nexus Repositor, Oracle, UNIX, Windows, Linux.

**Client: Dye & Durham Corporation, Toronto, ON** **Jun 2017 – Apr 2018**

***Role: DevOps Engineer***

**Responsibilities:**

* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Developed and Implemented Software Release Management strategies for various applications according to the Agile Process.
* Used Shell and Perl scripting to deploy artifacts that are built by Maven
* Managed branches and branching strategies in subversion and managed Dependencies using maven
* Developed Playbooks using Ansible. Automated agent's installation of Nagios on Windows servers and Linux servers
* Maintained the Selenium and JAVA automation code and resources in source controls like Git over the time for improvements and new features.
* Developed automation scripting in Python using **Chef** to deploy and manage Java applications across Linux servers
* Created and Implemented ANT and Maven build scripts for the **JAVA** applications and NANT and MS Build for .Net actively worked with application teams to understand current Deploy process
* Worked with the Architects on SDLC process being the owner of post development environments. Planning, scheduling and documenting releases at code Freeze Periods
* Developed and maintained the continuous integration and deployment systems using Jenkins, ANT, Maven, Nexus, Ansible and Run deck
* Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful
* Worked with different team members for automation of Release components
* Supported different projects build and release SCM effort, branching, tagging, merge etc
* Worked Extensively worked on both LINUX and Windows Environments

**Environment:** AWS, Java/J2EE, ANT, MAVEN, Azure, Jira, Confluence, Sub Version, Putty, Ant, Maven, Git, FileZilla, Apache Tomcat, WebSphere, Oracle, Windows, Linux.

***Client: Cloudsteer Technology Pvt Ltd, INDIA Jan 2016 – May 2017***

***Role:*** *Build and Release Engineer/Software Engineer*

**Responsibilities:**

* Worked as **Build and Release Engineer/Software** Engineer for a team that involved different development teams and multiple simultaneous software releases
* Designed and implemented the workflows as per the requirements for the software development and deployment following best practices in the industry using **lean-agile methodologies**
* Built and Deployed **java** source code into application servers in an **agile** continuous integration environment.
* **Configured and maintained Jenkins to implement the CI/CD pipeline allowing for early Quality Assurance Testing and reduction in deployment team efforts by 50%**
* Automated the deployment process using shell scripting, python
* Involved in Designing and Developing UI Interface using **Java**, JSP, CSS, JavaScript, Ajax, WML
* Exposed to all aspects of **Software Development Lifecycle (SDLC**) such as **Analysis, Planning and Developing, Testing**
* Experience with HTML, CSS in developing websites
* Deployed using builds tools like **MAVEN** and **ANT** for the building of deployable artifacts such as **jar**, war, and ear from source code

**Environment:** Git, Subversion, Apache Tomcat, Jenkins, Maven, Confluence, Artifactory, Rally, CentOS, Python, Shell Scripts, Oracle, Windows, Linux.

***Education:***

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| Institution: | **JNTU University** |
| Result/Degree: | **Bachelor of Technology, Computer Science and Engineering** |