**DevOps Engineer**

Gunayathi Navaneeth

Ph. #: 7245160880

[navaneethgunayathi@gmail.com](mailto:navaneethgunayathi@gmail.com)

linkedin.com/in/gunayathi-navaneeth-64b30718b

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| PROFESSIONAL SUMMARY: | |
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* Cloud DevOps Engineer with 7+ years of extensive experience in IT industry with ability to accomplish all aspects of UNIX/LINUX system administration, software configuration management (SCM) process, Infrastructure, Build & Release management, Integration, Deployment and cloud engineering.
* Experience in working with AWS/Azure resources like IAM, EC2, EBS, S3, ELB, VPC, ECS, Lambda, Route 53, Auto Scaling, Cloud Watch, Cloud Front, Cloud Trail, SQS and SNS and experienced in Cloud automation.
* Expertise in setting up database in AWS and Azure using RDS, storage using S3 bucket and configuring instance backups to S3 bucket to ensure fault tolerance and high availability.
* Expertise in Cloud Infrastructure Automation which includes Amazon Web Services (AWS), OpenStack, Ansible, Puppet, Maven, Jenkins, Chef, SVN, GitHub and LINUX etc.
* Expertise in using different file and block - level storage systems like the Elastic Block Store (EBS), Elastic File system (EFS), Amazon Glacier & Snowball, and Also Proficient in databases like the Dynamo DB, RDS.
* Expertise in using Terraform key features such as Infrastructure as a code (IAC), Execution plans, Resource Graphs, Change Automation.
* Experience in writing new plugins to support new functionality in Terraform. Experience writing Terraform templates to deploy infrastructure on a cloud with EC2, ELB, and SGs in JSON.



* Implemented CI/CD pipelines in Azure DevOps environments, including providing dependencies and tasks.
* Managed continuous delivery systems and methodologies in Azure, including ENDEND automation with CI procedures using Jenkins.
* Automated Maven builds by integrating them with Jenkins for seamless continuous integration.
* Hands-on experience in providing cloud-based infrastructure solutions in AWS with the following tools - Git, Drone, Ansible, Packer, Consul and Terraform.
* Expertise in implementing a production ready, highly available, fault-tolerant Kubernetes infrastructure and Worked on Scheduling, deploying and managing container replicas on a node cluster using Kubernetes.
* Experienced building Jenkins pipelines to drive all micro-services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Experience in working on several Docker components like Docker Engine, HUB, Machine, creating Docker images, Compose, Docker Registry and handling multiple images for middleware installations and domain configurations.
* Expertise in using Docker to run and deploy the applications in multiple containers like Docker Swarm and Docker Weave. Also worked on Docker container snapshots, removing images, and managing Docker volumes.
* Well versed with Ansible playbooks, modules and roles, wrote many Ansible playbooks for the automation of defined tasks using YAML format and run Ansible scripts to provision Dev servers.
* Experience using Ansible Tower dashboard, role-based access control, and access to Ansible for deployments and worked with Ansible Playbooks to automate various deployment tasks and working knowledge on Ansible Roles, Ansible inventory files, and Ansible Galaxy.
* Experience in configuring and managing Puppet master server and also experience in updating and creating modules and pushing them to puppet clients, Experience implementing puppet manifests for deploying, configuring, and managing collected for metric collection and monitoring.
* Implemented Jenkins Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts, and services to Docker and Red-Hat. Created Jenkins workflows using a Groovy script to automate the entire build and deployment process.
* Experience in managed version control tools like SVN, GIT, and Bit-bucket for branching, merging and resolving conflicting errors. Also experience in using JFROG and Nexus Artifactory Repository Managers for builds.
* Expertise in Java build tools like ANT, MAVEN for the building of deployable artifacts such as (jar, war & ear) from source code and MS-Build for .Net.
* Experience using Mongo DB third-party tools (ROBO MONGO, Mongo DB access manager) and mongo-built in binaries to monitor and analyse the performance of Mongo DB. Also experience working on various databases like PostgreSQL, MySQL, Oracle, NoSQL, Microsoft SQL server.
* Cassandra in retail for managing inventory, analyzing customer behaviour, and streamlining supply chain operations.
* Cassandra is utilized in consumer electronics for product tracking, warranty management, and customer support.
* Cassandra helps in real estate by managing properties, analyzing listings and sales, and analyzing location data.
* Worked on Cassandra in IT solutions for analyzing system logs, tracking user activity, and monitoring application performance.
* Extensive experience in JIRA for bugs tracking, storyboarding, creating and planning sprints. Also engineered Splunk to build, configure and maintain heterogeneous environments. Experience using Nagios for managing and monitoring the server and network infrastructure.

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| TECHNICAL SKILLS: | | |  | |
| Cloud Environment | | | Azure, AWS, Google Cloud Platform (GCP), Open Stack | |
| Operating Systems | |  | Linux (Red Hat, CENTOS & SUSE, Ubuntu), Solaris, DEBAIN, Windows. | |
| Scripting | |  | Shell Scripting, Python, Ruby and PowerShell. | |
| Languages Technologies | | & Web | JAVA/J2EE, JavaScript, HTML5, CSS3, XML. | |
| Version Control Tools | | | GIT, GITHUB, Subversion (SVN), CVS, Bitbucket. | |
| Application Servers | | | Web Logic Application Server, Apache Tomcat, JBoss, Web Sphere. | |
| Web Servers | | | Tomcat Apache and Nginx. | |
| Automation &  Configuration tools | | | Chef, Puppet, Ansible, Jenkins, Salt stack, Docker, Vagrant, Terraform. | |
| Orchestration Tools | | | Kubernetes, Docker swarm, Mesos, Open shift. | |
| Virtualization Technologies | | | VMware ESXi, Windows Hyper, Power VM, Virtual box, KVM. | |
| Monitoring Tools | | | Nagios, Cloud Watch, Splunk, and ELK. | |
| Build Tools | | | Maven, Gradle, Ant, and MS Build. | |
| Bug Tracking Tools | | | Code Commit, JIRA, Bugzilla, Remedy, Atlassian | |
| Artifactory | | | Proximity, Artifactory, Nexus, Jfrog | |

PROFESSIONAL EXPERIENCE:

JLL Chicago, Illinois, USA

November 2021– Till date

**Senior DevOps Engineer**

Project Description: collaborates with software development teams to design, develop, and implement automated solutions for building, testing, and deploying code. Manage and maintain the company's infrastructure, including servers, databases, and other resources, to ensure they are secure, reliable, and scalable. Design and implement tools and processes for continuous integration and continuous delivery to streamline the software development lifecycle. Monitor and troubleshoot system performance issues, implement performance tuning, and provide support to developers and other teams as needed and also ensure that the company's IT infrastructure and applications are compliant with industry standards and regulation.

Responsibilities:

* Perform business requirement analysis and data modelling sessions in Azure environment.
* Architect, build and maintain Highly Available and secure multi-zone Azure cloud infrastructure utilizing Azure Resource Manager and Azure DevOps for continuous integration.
* Create ARM templates to create custom-sized virtual networks, subnets, VM instances, load balancers, and security groups.
* Implement Large Scale Cloud Infrastructure (250+ servers) using Azure resources such as Azure Blob Storage, Azure Virtual Machines, Azure Load Balancer, Azure SQL Database, Azure Cosmos DB, and deployment services like Azure DevOps and Azure Resource Manager, and security practices like Azure Active Directory, Azure Security Center, and Azure Monitor.
* Define Azure Network Security Groups which act as virtual firewalls that control the traffic allowed reaching one or more Azure VM instances.
* Build and maintain an automated pipeline to quickly and efficiently deploy new features and bug fixes to real estate websites and mobile applications with help of CI/CD in Azure DevOps.
* CI/CD ensures that the software releases meet the high standards for security, accessibility, and user experience required for real estate transactions.
* Collaborate with development, testing, and business teams to plan and execute software releases, ensuring that the software aligns with the goals and requirements of the real estate industry.
* Manage a production infrastructure on Azure Virtual Network utilizing Azure DevOps, Azure Blob Storage, Azure Virtual Machines, Azure Container Service, and Azure Resource Manager including Auto Scaling.
* Work on developing APIs using Azure Kubernetes Service (AKS) to manage and specify the copies of the containers to run the actual servers in the cloud environment.
* Create reproducible builds of the Kubernetes applications, templates Kubernetes manifests, provide a set of configuration parameters to customize the deployment and manage releases of Helm packages managed Kubernetes charts using Helm in Azure Kubernetes Service (AKS).
* Create automation and deployment templates for relational and non-relational databases including Azure SQL Database and Azure Cosmos DB can be used in Azure Resource Manager.
* Work on PowerShell for automation of repetitive processes done in Azure VM administration, file management and directory permissions in different environments.
* Write PowerShell scripts for deploying, configuring and managing Azure resources for metric collection and monitoring.
* Scalable data management: Azure Cosmos DB's distributed architecture and high-availability features make it well-suited for managing large amounts of real-time property data, such as listings, transactions, and property history.
* Real-time analytics: Azure Stream Analytics' fast read and write performance make it a good choice for real-time analytics in the real estate industry, such as monitoring property prices, tracking market trends, and analyzing customer behavior.
* Deploy Azure DevOps and Azure Monitor for configuration management and monitoring to existing infrastructure.
* Work on Azure Automation for identifying post-naming conventions instead of a rich set of metadata.
* Manage a continuous delivery pipeline with Azure Kubernetes Service (AKS), Azure DevOps, and GitHub. Use a GitHub branch on Azure DevOps continuous integration server to automatically build Docker container from it.
* Integrate Git into Azure DevOps to automate the code check-out process. Use Azure DevOps for automating builds and automating deployments.
* Perform integration of code quality analysis and testing techniques like SonarCloud, Selenium, JUnit, and Azure Monitor with Azure DevOps.
* Deploy the Java application into web application servers like Apache Tomcat, Nginx and JBoss in Azure Virtual Machines.
* Optimize Nginx, Apache, and PHP for better server performance in Azure Virtual Machines.
* With the help of Azure DevOps, as a team track the Conducted business requirement analysis and designed data models to support cloud infrastructure migration to Azure
* Number of successful migrations to Azure within a given time frame, with minimal disruption to business operations
* Architected, built and maintained highly available, secure multi-zone Azure cloud infrastructure using Azure Resource Manager (ARM) templates and Azure DevOps for continuous integration and delivery
* Technical metric: Percentage of infrastructure uptime and availability over a given time period
* Created ARM templates to provision custom-sized virtual networks, subnets, virtual machines, load balancers, and security groups.
* Technical metric: Time taken to provision infrastructure components using ARM templates, with an aim to reduce deployment time
* Implemented large-scale cloud infrastructure (250+ servers) using Azure resources (Azure Storage, Azure Virtual Machines, Azure Load Balancer, Azure Virtual Network, etc.) and deployment services (Azure DevOps and ARM templates) and security practices (Azure Active Directory, Azure Security Center, Azure Policy
* Resource utilization and cost optimization across the entire cloud infrastructure, with the aim of reducing costs while maintaining performance and availability
* Defined Azure Network Security Groups to control traffic flow to and from Azure Virtual Machines and other resources
* Number of security incidents or breaches prevented through the use of Azure Network Security Groups
* Automated the deployment of new features and bug fixes to real estate websites and mobile applications using Azure DevOps and CI/CD pipelines. Technical metric: Time taken to deploy new features and bug fixes to production, with a focus on reducing deployment time while ensuring quality.
* Collaborated with development, testing, and business teams to plan and execute software releases, ensuring that the software aligns with the goals and requirements of the real estate industry
* Number of successful software releases with minimal defects, as measured by the number of support tickets raised post-release Managed a production infrastructure on Azure utilizing Azure DevOps, Azure Container Registry, Azure Kubernetes Service (AKS), and Azure VM Scale Sets.

Environment: Azure (EC2, IAM, VPC, ELB, EBS, Route53 Auto Scaling, Cloud Watch), MySQL, Mongo DB, Oracle, Groovy, Bash, Python, Boto3, Terraform, Kubernetes, Docker, Jenkins, GitHub, GIT, Maven, Tomcat, Apache, Web-sphere, Behave, Cucumber, Ansible, Splunk, Consul, Nexus, RHEL, shell, CI/CD, Cassandra.

BEST BUY, Minneapolis, Minnesota, USA

May 2020 to Oct 2021

**DevOps Engineer**

Project Description: The project aims to design, build and maintain a highly available, secure, multizone Azure cloud infrastructure for Best Buy company. The project team will utilize Azure CloudFormation, Jenkins, Kubernetes, and Puppet for automation, monitoring, and deployment, by creating templates, scripts, and processes for Azure resources, databases, and application servers and also implement security and compliance measures using Security Groups and IAM. The project will also involve converting existing Terraform modules to CloudFormation and managing Helm packages. The team will optimize server performance, track work progress using JIRA Agile and use Splunk for data collection.

Responsibilities:

Architect, build, and maintain a highly available, secure, multi-zone Azure cloud infrastructure with a 99.99% uptime using Azure Resource Manager templates and Azure DevOps for continuous integration and deployment.

* Create 50+ Azure Resource Manager templates for custom-sized virtual networks, subnets, virtual machines, load balancers, and network security groups.
* Implement a large-scale cloud infrastructure with 250+ servers utilizing Azure resources (Azure Blob Storage, Azure Virtual Machines, Azure Load Balancer, Azure Cosmos DB, etc.) and deployment services (Azure DevOps and Azure Resource Manager) and security practices (Azure Active Directory, Azure Security Center, and Azure Monitor) and services such as Azure Functions, Azure HDInsight, Azure Event Grid, and Azure Kubernetes Service.
* Define 50+ Azure Network Security Groups to control traffic to one or more Azure virtual machines.
* Manage a production infrastructure on Azure Virtual Network with 99.99% uptime utilizing Azure DevOps, Azure Virtual Machines, Azure Kubernetes Service, and Azure Resource Manager.
* Convert 20+ existing Terraform modules that had version conflicts to utilize Azure Resource Manager during Terraform deployments to enable more control or missing capabilities.
* Develop 15+ APIs using Azure Kubernetes Service to manage and specify the copies of the containers running the actual servers in the cloud environment.
* Created reproducible builds of 20+ Azure Kubernetes applications, templates, and manifests, providing a set of configuration parameters to customize the deployment, and managed releases of 15+ Helm packages and Kubernetes charts using Helm in Azure.
* Created automation and deployment templates for 15+ relational and non-relational databases including Azure SQL Database and Azure Cosmos DB to be used in Azure Database services.
* Azure Cosmos DB was used to manage inventory levels in real-time across multiple retailers and distribution locations.
* Azure Cosmos DB was implemented in an Azure store to manage customer data such as customer behavior, purchase history, and personal information.
* Azure Cosmos DB is used to monitor and track online and in-store orders, such as order status, shipping information, and payment processing.
* Azure Cosmos DB was used to evaluate customer behavior and purchase data to optimize marketing activities like targeted specials and personalized recommendations.
* We optimize our supply chain operations with Azure Cosmos DB by providing real-time data on product availability, delivery times, and inventory levels.
* Used Azure Automation for automation of repetitive processes in Azure user administration, file management, and directory permissions in different environments.
* Wrote 30+ Azure Automation runbooks in PowerShell for deploying, configuring, and managing collected metrics for collection and monitoring.
* By performing automating tests for software, the company can ensure the quality and compatibility of their products. This can be achieved by integrating testing tools into the CI/CD pipeline, so that automated tests run with every code change.
* CI/CD allows the company to quickly and reliably deploy new software to their devices. This can be done by automating the build and deployment process, making it possible to release software updates in a matter of hours or even minutes.
* By reducing the manual effort required for software development and deployment, the company increases their overall productivity and reduces the risk of errors. This results in faster time to market and lower costs, enabling companies to compete more effectively in the market.
* Deployed Azure Automation and Azure Automation State Configuration for configuration management to existing infrastructure.
* Used Azure Log Analytics for identifying post-naming conventions instead of a rich set of metadata.
* Managed a continuous delivery pipeline
* Time taken to provision, configure and manage production infrastructure components, with a focus on reducing time to market for new services
* Developed AKS manifests and provided a set of configuration parameters to customize the deployment of containers in the cloud environment.
* Time taken to deploy new Kubernetes applications, with a focus on reducing time to market for new services
* Created automation and deployment templates for relational and non-relational databases, including Azure SQL Database and Cosmos DB.
* Wrote PowerShell scripts for automation of repetitive processes such as user administration, file management and directory permissions

Environment: Microsoft Azure EC2, Route 53, Buckets, VPC, IAM, ELB, Auto Scaling Cloud Watch cloud front, Cloud Formation, Puppet, Git, Ant, Maven, Jenkins, Junit, Selenium, Jira, MySQL, Apache Tomcat servers, JBoss, Python, CI/CD, Cassandra, Nagios, Shell Scripting, Ruby, Linux, Unix, Windows.

**Gilbarco- Greensboro, NC**

May 2017 to Dec 2019

**DevOps Engineer**

Project Description: This project involves a DevOps Engineer working with the **Gilbarco** company to design, implement and maintain a robust and scalable infrastructure for the company's software development and deployment needs and was responsible for managing public and private cloud infrastructures using Azure and other technologies, for maintaining version control systems, and for implementing automated solutions for building, testing, and deploying code, also was responsible for monitoring and troubleshooting system performance, ensuring compliance with industry standards and regulations, and participating in incident management. The Engineer will keep abreast of new technologies and make recommendations for improvements, collaborate with other teams, and have experience in containerization and infrastructure-as-code.

Responsibilities:

* Design and manage public/private cloud infrastructures using Azure Cloud
* (Azure) such as EC2, S3, Cloud Front, Elastic File System, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Trail, Cloud Formation, and IAM for automated operations.
* Maintain and manage version control systems such as Subversion/GITLAB, Stash Repositories, views, and access control strategies.
* Build and deploy onto different environments using Jenkins, manage plugins, and work with Jenkins CLI and Jenkins file.
* Implement Terraform modules for deployment of various applications across multiple cloud providers and managing infrastructure.
* Automate inbound and outbound services using CHEF, deploy multiple resources simultaneously using Cloud Formation templates in Azure.
* Configure and deploy Chef Server and Chef Solo, including bootstrapping of Chef Client nodes for provisioning.
* Monitor cost and operational efficiencies, perform Cloud Benchmarking to benchmark the performance of Azure and GCP instances.
* Create and manage Docker images using a Decker file, work on Docker Swarm container snapshots, removing images, and managing Docker volumes.
* Use Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services, and deployed application containers as Pods.
* Configure users and secure MySQL databases with appropriate permissions.
* Evaluate existing JIRA instances and resolve performance issues, expert knowledge in Bash Shell Scripting, and automation of Cron Jobs.
* Perform patching on Linux and Windows instances within a maintenance window using Ansible and occasionally perform security updates to remediate system vulnerabilities.
* Build key-based SSH authentication with nodes, create inventory of remote hosts, and create playbooks.
* Perform automation engineer tasks and implement the ELK stack (Elasticsearch, Logstash, Kibana) for Azure EC2 hosts.

Environment: Chef, Jenkins, Docker, GCP, Agile, Nginx, Python, Maven, Nexus, Nagios, GIT, GITLAB, Azure EC-2, Route 53, S3, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, Ansible, MySQL, Unix/ Linux environment.

Infinite Computer Solutions, IND

Jan 2015 – Apr 2017

**DevOps Engineer**

Project Description: Migration and automation of build and deploy systems for multiple projects for installation, configuration, and troubleshooting, several AWS cloud services such as EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups, CloudWatch, CloudFront, and IAM are used. Working heavily with AWS CloudFormation templates to generate custom-sized EC2 instances, VPC, subnets, NAT, ELB, and Security groups Creating alarms and trigger points in CloudWatch based on thresholds and monitoring server performance, CPU utilization, and disk usage. Using AWS CloudWatch services to monitor the environment for operational and performance data during load testing, Working with CloudFront to provide content to users from AWS edge locations, lowering the burden on front-end servers.

Responsibilities:

* Involved in migration and automation of build and deploy systems for various projects
* Utilized various AWS cloud services such as EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups, CloudWatch, CloudFront, and IAM for installing, configuring, and troubleshooting
* Worked extensively with AWS CloudFormation templates to create custom-sized
* EC2 instances, VPC, subnets, NAT, ELB, and Security groups
* Created alarms and trigger points in CloudWatch based on thresholds and monitored the server's performance, CPU Utilization, and disk usage
* Utilized AWS CloudWatch services to monitor the environment for operational and performance metrics during load testing
* Worked with CloudFront to deliver content from AWS edge locations to users, reducing load on front-end servers
* Created Python scripts to automate various AWS services such as web servers, ELB, CloudFront distribution, EC2, database, security groups, S3 bucket and application configuration
* Worked with Kubernetes and Docker for the runtime environment of the CI/CD system to build, test, and deploy
* Worked on various projects to migrate data from one database to AWS Redshift, RDS, ELB, EMR, Dynamo DB, and S3
* Installed and configured Jenkins and performed troubleshooting during installation to implement the CI process for Java application builds
* Built and maintained Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on GCP
* Involved in creating Jenkins pipeline jobs for the Puppet release process for module deployment, using Kanban AGILE methodology for Puppet development

Environment: Linux, AWS, RedHat Satellite Server, Puppet, Ansible, Jenkins, Chef, Docker, Kubernetes, Splunk, Nagios, VERITAS cluster, WebLogic, WebSphere, Apache web servers, Tomcat servers, Apache Spark, Nginx, Shell Scripting, Python, Git/Bit bucket, Maven VMware ESX.