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VENI D

**Sr. AZURE/AWS/DevOps Engineer/Linux System Administrator**

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 **Philadelphia, PA**

@ **vennid9@gmail.com**

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# RECENT PROJECT

### Design & Deployment of Microservices Application on Azure AKS

. Creating & Deploying End-to-End Application Deployment Using Azure DevOps Pipeline

. Deploying Eviti Empower and Auto Immune Based Application with integration with Other Azure Services.

. Design & Deploy BC-DR and Failover Strategy for Production Application Deployment.

. Design Scalable & Reliable Infrastructure for Global Applications.

. Integrating on-prem Infrastructure with Azure Cloud Services following security best practices.

. Designing complete CI/CD pipelines for Infrastructure and Application rollout.

. High & Low-level Design for Kubernetes Infrastructure on Azure Cloud Platform.

Migrated On-Premises Legacy and Historical Data to Azure Data Lake Storage Account

. Deployed whole infrastructure as per security best practices utilizing HUB -SPOKE architecture.

. Creating & Managing Multi Environment Infrastructure which includes DEV, INT, UAT & Production.

. Application Roll out for all environments utilizing CI/CD pipelines on Azure DevOps.

. Mentoring Developers, Cloud & DevOps engineers to manage Application & Infrastructure.

. Complete Architecture Design & Deployment.

. Deploying the Enterprise Data Lake storage account with different Containers.

. Responsible for giving permission to the different teams using RBAC policies.

AWS Cloud Based Greenfield Web Application Deployment

. Infrastructure Automation & Deployment for Java Springboot application leveraging 3-tier architecture.

. Integrating with DevOps Tools, Terraform, Ansible, Jenkins, SonarQube with AWS Services.

. Implemented multi-account architecture with AWS Organizations.

. Compliance & Governance with AWS Config, CloudTrail, Gaurdduty & SecurityHub.

. Deployment Dev, UAT & Production environments using CI/CD Tools.

. Business continuity (BC) and disaster recovery (DR) for Application High Availability.

# SKILLS

Microsoft Azure

Azure AD

Virtual Networks

Azure SQL

App Services

Azure Firewall

Recovery Vaults

ARM Iaac

Storage Accounts

VMSS

ACR & Azure AKS

Private Endpoints

NSG

LoadBalancer

Application Gateway

Traffic Manager

Logic App

Public & Private Zones

Automation Accounts

Cosmos DB

Azure Event Hubs

Service Principal & MSI

MGMT Groups

Service Bus

Function App

Azure ACR

Key Vault

Azure SQL MI

Availability Sets

Azure Migrate

DMS & DataSync

Azure DataBricks

Monitoring

Log Analytics

App Insights

Amazon Web Services

DevOps Tools

GIT

Kubernetes

BLUE/GREEN

Chef

ELK.EFK

Maven

JFrog

Container Security

CIS Benchmarking

SAST & DAST

HashiCorp Vault

GitLab

GitHub Actions

Jira

Python

OpenShift

Vault

# MY TIME



S3

Prometheus

Sonarqube

DevOps Metrics

CI/CD

Branching

Azure DevOps

Jenkins

Azure AKS

AWS EKS

Rancher K3S

Rancher RKE

Docker Swarm

Docker

Puppet

Ansible

Packer

Terraform

Scripting

SNS/SDS

Event Bridge

EFS/FSx

AMI

Managed AD

AWS SSO

WAF

Route53

Autoscaling

High Availability

Disaster Recovery

Cloud Formation

CodePipeline

Terraform

CloudWatch

IAM

AWS CLI

Cloudtrail

EC2

Managed AD

ELB

Boto3

Migration

API GW

Security

SSM

IaaC

SSO

Migration

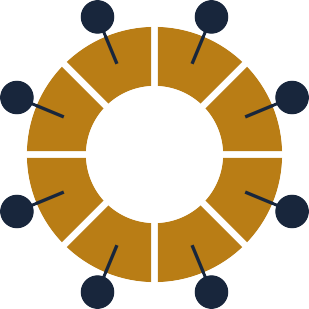
ECS/EKS

Lambda

RDS

ELB

VPC



H

A

G

B

F

C

E

D

Automation of manual tasks for infrastructure deployment and configuration.



A

Deploying Cloud infrastructure on Azure & AWS Clouds.



B

New Tools R&D for Product Stability & ensure consistency and stability.



C

Participating in the business-wide infrastructure architecture and domain governance model.



D

Performance assessment and Monitoring.



E

Automation and improve development and release processes.



F

Update and patch the new releases and versions of the Terraform Modules.



G

Adding DNS Zones to the HUB.



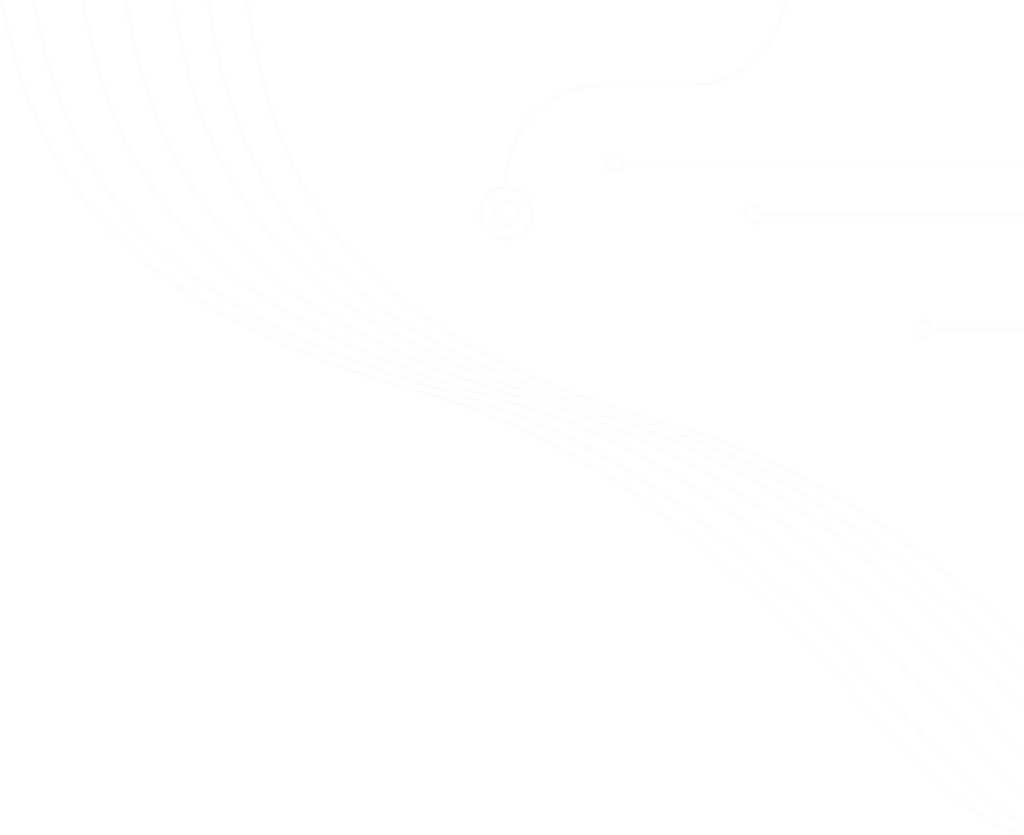
H

#### 03/2024 - Present

Chicago, United States

## Sr Cloud & DevOps Engineer

### Fresh Thyme Market (Meijer)

* • Deployed and managed cloud infrastructure for the team, ensuring robust and scalable solutions.
* Utilized Terraform for Infrastructure as Code (IAC), designing and implementing all modules from scratch.
* Created Number of Modules for reusable purposes, like Storage account, App Service, Data Factory, Data Bricks, Virtual Machines, VMSS, Virtual Networks, Cosmos DB, SQL Servers, etc....
* Developed and maintained CI/CD pipelines for continuous integration and continuous deployment using Azure DevOps
* Configured site-to-site VPN connections to enable Azure WebApps to access DAX within the local Data Center.
* Migrated on-premises Windows and Linux servers from production to development clusters in V-Center.
* Developed PowerShell scripts to gather information from Azure AD, identifying groups with three or fewer members and those that had not received emails in the past 60 days. Also created scripts for filtering specific groups and generating audit logs for

group activities within a defined time range.

* Utilized Miro for architecture design and implementation, collaborating on visualizing system designs.
* Leveraged Prisma Cloud to monitor security posture, detect and respond to threats, and maintain compliance across Azure and AWS environments.
* • Resolved compliance issues and policy violations within Azure that were identified by Prisma Cloud.
* Integrated Azure Sentinel with various security tools to enhance the overall security ecosystem and improve operational efficiency.
* Implemented Azure diagnostic settings across all resources to centralize the monitoring and management of logs and metrics
* Managed a cloud-based Security Information and Event Management (SIEM) system, integrating data from multiple sources for threat detection, incident analysis, and

automated response workflows.

* Integrated Azure Application Insights with Azure App Service for real-time performance monitoring, telemetry, and diagnostics.
* Led the migration of large-scale data from AWS S3 to Azure Storage Account, ensuring data integrity and security throughout the process.
* Created and managed Azure Boards for the team to track and manage Change Advisory Board (CAB) tickets, ensuring effective change control and implementation processes.
* Integrated SonarQube into the CI/CD pipeline to automate code analysis, ensuring early detection of bugs and vulnerabilities.
* Implemented containerized based applications on Azure Kubernetes by using AKS, which are responsible for cluster management, Virtual Network to deploy agent nodes.
* Installed Docker Registry for local upload and download of Docker images and from Docker Hub and created Docker files to automate the process of capturing and using the images.
* Configured Shared Access Signature (SAS) tokens and Storage Access Policies in Azure Cloud Infrastructure.

•Utilized Kubernetes to deploy, scale, load balance, and manage Docker containers across multiple namespaces and versions.

•Creating User Stories for solution development, Planning & Executing Projects inline with Agile Framework.

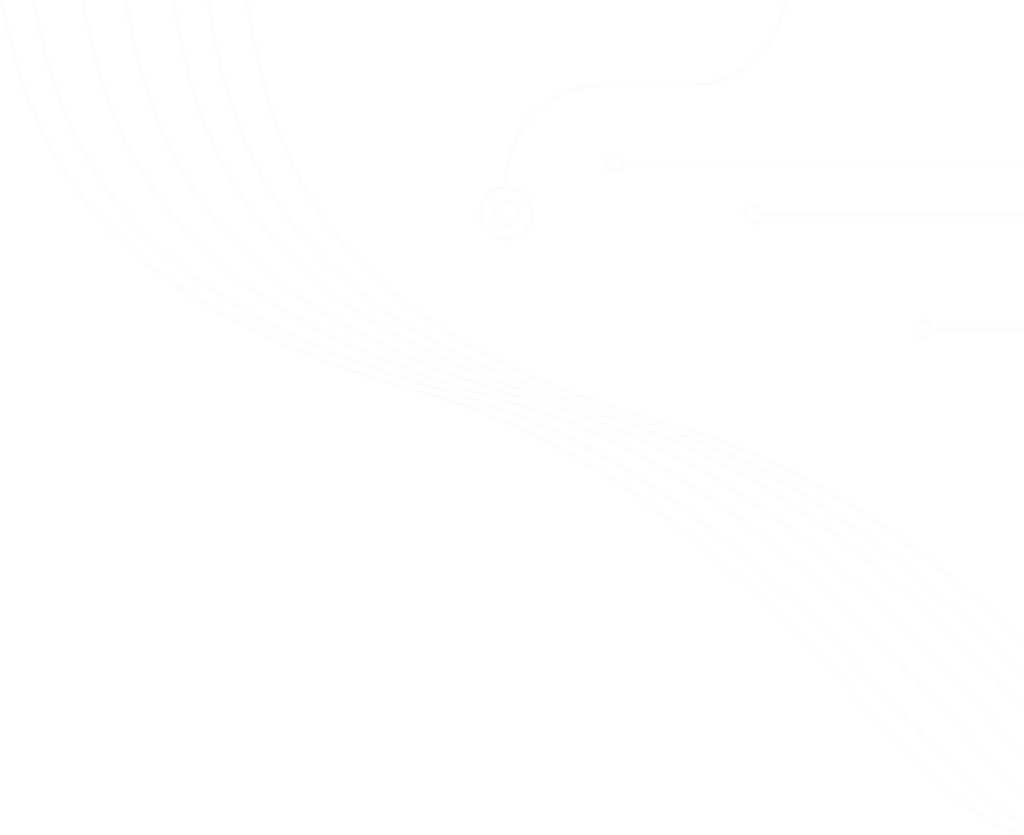
•Installed Ansible Tower and wrote playbooks, created roles to roll out configurations to different environments.

#### 09/2021 - 12/2023

Philadelphia, PA

## Senior Azure DevOps Engineer

### NantHealth

* •Working with Development Teams to migrate the On-Prem application to Azure Cloud through Lift and Shift Process.

•Created AKS clusters and performed cluster upgrades using Blue-Green Deployment methodology, successfully upgrading the version from 1.24 to 1.26. and Transferred workloads seamlessly from one cluster to another utilizing the F5 load balancer.

•Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes.

•Implement Azure DevOps in building pipeline to deploy all builds to the ACR and then deployed into Kubernetes.

•Implemented CI/CD pipelines using Azure DevOps to ensure efficient and reliable software delivery.

•Configured Virtual Machine Scale Set (VMSS) Build Agents to execute pipelines for various teams across BTL and ATL environments.

•Responsible for Infrastructure as a Code with Terraform & Configuration Management with Ansible.

•Responsible for implementing the customized terraform modules and maintaining the central repository for all the data products. Such as Cosmos DB, Mongo DB, SQL, VMSS, App service, Function App, Logic App.

•Integrated Sentinel policies seamlessly into Terraform Enterprise workflows, ensuring that policy checks are performed automatically during the Terraform run.

•Implemented continuous monitoring and enforcement of policies across multiple Terraform workspaces, ensuring ongoing compliance and reducing security risks.

•Responsible for creating and executing Proof-Of-Concept (POC) for new technologies which can add value to the Cloud Engineering COE.

•Implemented the Hub-and-Spoke architecture, and managed Log Analytics solutions to centralized subscription to aggregate and forward all logs and metrics from every

resource.

•Responsible for Application & Infrastructure Security Assessment & Vulnerabilities.

•Implemented SonarQube for identifying and publishing issues and bugs within applications, ensuring proactive code quality management.

* •Configured EventHub’s and Namespaces and set up the Capture to the Events.

•Using Azure backups and Recovery Vault to migrate on premise to Windows in Azure Cloud.

•Designed and established the complete infrastructure for Data Factory, SQL Managed Instances, Virtual Machines (VMs), and DataBricks to support team operations.

•Implemented Managed Identities and System Assigned Identities to adhere to security requirements, Orchestrated the deployment of SQL Servers and Databases tailored to the diverse needs of multiple teams.

•Conducted troubleshooting and root cause analysis, resolving critical issues promptly to minimize downtime.

•Maintained high degree of competency across the Microsoft Application Platform focusing on .NET Framework, WCF, Windows Azure, and SQL Azure.

•Integrated Dynatrace with CI/CD pipelines for automated performance testing and early identification of performance regressions.

•Utilized Splunk as a SIEM tool to monitor and analyze security events, ensuring prompt detection and response to potential threats.

•Responsible for configuring Business Continuity -Disaster Recovery (BCDR) for application high availability.

•Strong use of various scripting languages like Groovy, Shell (Bash), Json, Yaml, Ruby and Python.

•Designed and implemented data pipelines using Azure Synapse Pipelines to orchestrate ETL processes from multiple data sources into a centralized data warehouse.

•Integrated with Azure Data Lake Storage Gen2 for scalable, high-performance storage solutions in Synapse Analytics environments.

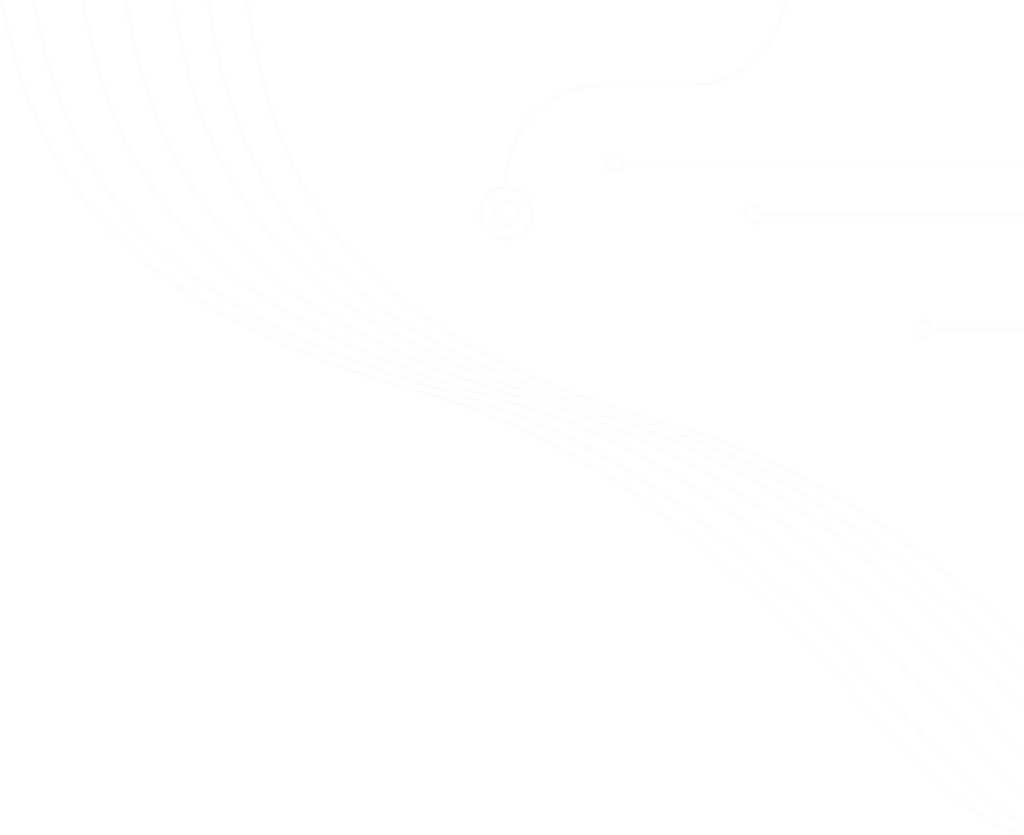
•Integrated PySpark workflows with Azure Synapse, Azure Databricks, ofor cloud-based big data solutions and high-performance data engineering pipelines.

#### 10/2019 - 08/2021

Pleasanton, CA

## Azure/AWS DevOps Engineer

### Albertsons

* •Responsible for Security, Reliability, Scalability & Operational Excellence for cloud-based customer infrastructure & applications.

•Responsible for Design & Implement end-to-end Cloud Solutions based on the

customer requirements utilizing the latest technologies in Virtualization, Cloud and Storage.

•Designed and implemented a multi-cloud architecture leveraging Azure and AWS services to maximize flexibility and redundancy.

•Orchestrated seamless integration between Azure and AWS environments for cross- platform applications.

•Automated infrastructure provisioning using Terraform and AWS CloudFormation, ensuring consistent deployment across both platforms.

•Implemented Azure Resource Manager (ARM) templates to automate resource provisioning and configuration.

•Established secure hybrid cloud connectivity using Azure Virtual Network and AWS Direct Connect, ensuring seamless communication between on-premises and cloud resources.

•Implemented robust security measures on both Azure and AWS, leveraging services such as Azure Security Center and AWS Identity and Access Management (IAM).

•Implemented CI/CD pipelines using Azure DevOps and AWS Code Pipeline for continuous integration, deployment, and automated testing.

•Utilized Azure Monitor and AWS CloudWatch for real-time monitoring and performance optimization.

* •Closely working with pre-sales and customers and understanding the requirements, proposing robust, scalable, and reliable solutions based on VMWare, Hyper-V,

OpenStack, AWS & Azure.

•Setup Azure Virtual Machines (VMs) to meet security requirements as software-based appliance functions.

•Implemented high availability with Azure Classic & Azure Resource Manager deployment models.

•Implemented containerized based applications on Azure Kubernetes by using AKS, which are responsible for cluster management, Virtual Network to deploy agent nodes.

•Implemented Terraform continuous build integration system. Used Azure Internal Load Balancer to provide high availability for IaaS VMS& PaaS role instances.

•Monitoring and implementing security on Azure IaaS VMs and virtual networks.

•Evaluated Kubernetes for Docker container orchestration. Managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications.

•Templatize Kubernetes manifests provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.

•Established infrastructure and maintained Logging and Monitoring subsystems using Prometheus & Grafana.

•Experience in working with SQL databases like MySQL, PostgreSQL, Oracle 10i/9i/8i, SQL Server and Cosmos DB.

#### 11/2017 - 09/2019

Woonsocket, RI

## AWS DevOps Engineer

### CVS Health

* •Developed and implemented Software Release Management strategies for various applications through the agile process Using DevOps tools.

•Worked with Development and QA teams to continuously integrate software development using Maven, GIT, and Jenkins.

•Performed Infrastructure maintenance tasks such as ensuring system availability, performance, capacity, and continuity through proper response to incidents and problems.

•Created Terraform modules to create instances in AWS & automated process of creation of resources in AWS using Terraform.

•Responsible for designing, implementing, and supporting DevOps and AWS cloud- based infrastructure and its solutions.

•Used AWS Lambda for Server less code compiling and Kinesis for the product development.

•Migrated on premise database to AWS Cloud and designed, built, and deployed a

multitude application utilizing the AWS stack (Including EC2, R53, S3, RDS, SNS, and IAM), by focusing on high-availability, fault tolerance, and auto-scaling.

•Developed build and deployment scripts using Maven as build tool in Jenkins to move from one environment to other environments.

•Deployed and configured Elastic Search, Logstash and Kibana (ELK) for log analytics, full-text search, application monitoring in integration with Cloud Watch and Nagios.

•Utilized Kubernetes to deploy, scale, load balance, and manage Docker containers across multiple namespaces and versions.

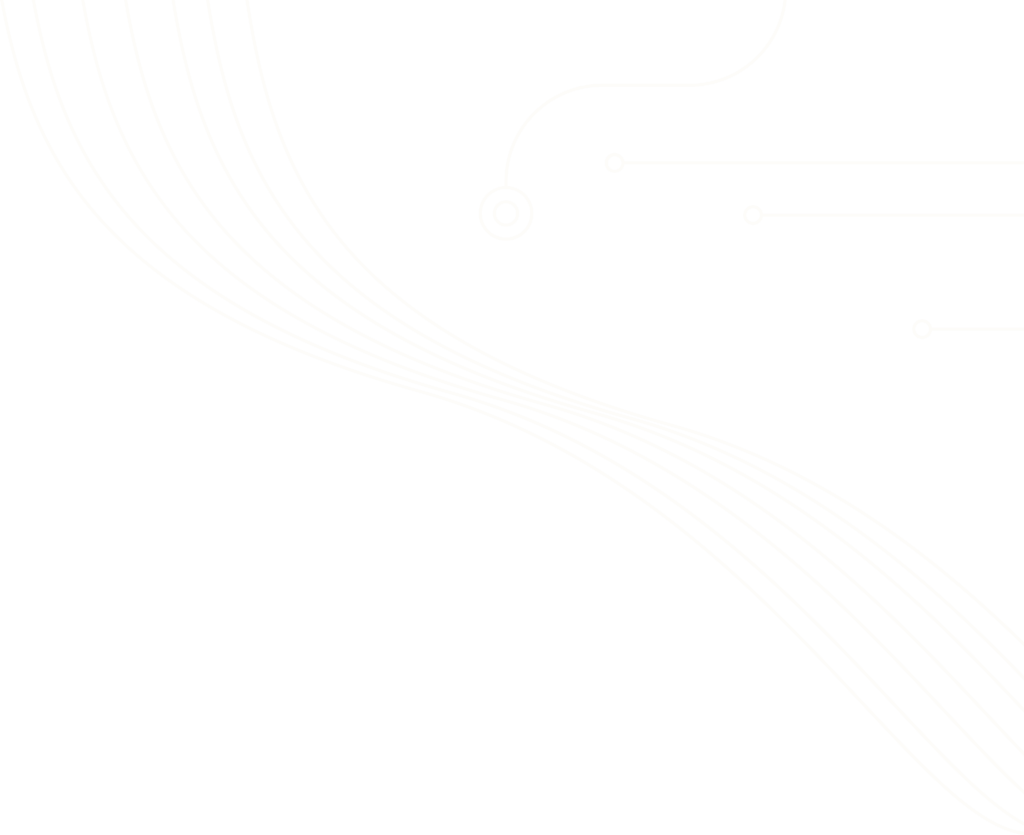
•Automated Java Builds with Maven and Implements multiple plugins for Code analysis, JUnit, Code coverage, PMD, SonarQube, etc. Installed and administered Artifactory repository to deploy the artifacts generated by Maven.

#### 05/2016 - 10/2017

Atlamta, GA

## Cloud DevOps Engineer

### Delta Air Lines

* •Provisioning of infrastructure for our environments building AWS CloudFormation stacks from the resources VPC, EC2, S3, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, Security Group, Auto Scale.

•Creating NAT and Proxy instances in AWS and managing route tables, EIP's and NACLs. Configuring of Virtual Private Cloud (VPC) with networking of subnets containing servers.

•Orchestrated Chef for configuration management, ensuring consistency across multiple environments.

•Wrote Chef Cookbooks for various DB configurations to modularize and optimize

product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.

•Integrated SonarQube with Jenkins using Maven to get the Quality Analysis for all the Projects predeployments. Discussed the report with Developers to explain the

SonarQube Report and to help improve code Quality.

•Worked on Docker engine and Docker Machine environments, to deploy the micro

services-oriented environments for scalable applications, Docker swarm to host cluster and container scheduling, Docker compose to define multiple container applications.

•Implemented CI/CD pipelines with Jenkins, automating the software delivery process.

•Responsible for installation & configuration of Jenkins to support various Java builds

and Jenkins plugins to automate continuous builds and publish Docker Images to Nexus Repo.

•Written shell scripts with Bash, Python to automate tasks like provisioning servers,

installing, configuring packages, and deploying applications on multiple servers in the Prod & Non-prod environments.

#### 06/2013 - 01/2016

Hyderabad, India

## Linux System Administrator

### Citi Bank

* •Worked on AWS Services to configuring and deploy private and public subnets for the

VPC and attached Internet Gateways and NAT Gateways along-side with Security Groups with specific In-bound/Out-Bound Rules.

•Automated the process of creating release packages for multiple configurations on Unix Platforms, using ANT.

•Deployed Puppet, Puppet Dashboard and Puppet DB for configuration management for the existing infrastructure.

•Configured various services, devices as well as applications of UNIX servers and worked with application team to customize the environment.

•Handling the day-to-day Operations, installing software, applying patches, manage file systems, monitoring performance and troubleshoot alerts.

•Installation, Configuration, and upgrade of Redhat Linux (3,4,5,), CentOS, Oracle Linux, SUSE, Solaris, HP-UX & Windows 2000 / 2003/2008 Operating System.

•Implemented and given operational support of 2000+ Linux servers and virtualized. environments (VMware) through provisioning, patching, storage management application deployment, and troubleshooting of incidents raised by various teams.

•Installation and configuration of Oracle 8/9i database on Sun Solaris Servers.

•Performance tuning, troubleshooting, developed and facilitated the framework of server patching and upgrade of RHEL servers.

# EDUCATION

## Master of Computer Applications (MCA)

Andhra University. India