# Anvesh Reddy K|317-441-2001|Sr DEVOPS SRE Engineer| A picture containing text, sign Description automatically generatedA picture containing text, sign, blue Description automatically generatedA blue hexagon with white text Description automatically generated

# PROFESSIONAL SUMMARY https://www.linkedin.com/in/anvesh-reddy-k-1b8587217/

* Overall, 10 years of professional IT experience with DevOps Engineering and SRE. Cloud Operations which include Source Control Management, Build Automation, Continuous Integration (CI), Continuous Deployment (CD), Azure Cloud, AWS and as IBM Security Access Manager Administrator with expertise in Tomcat, Apache, SSL/TLS certificates.
* Involvement in all phases of Software Development Life Cycle (SDLC) such as planning, analysis, design, implementation, testing and maintenance of Web Based, Client-Server and N-tier Architectures.
* Experience with CI/CD Extensively on Tools like Ansible, Jenkins, Maven, Artifactory, GitHub, Bitbucket and Docker, Kubernetes to streamline deployments.
* Implemented and managed Google Site Reliability Engineering principles and, SLO, SLIs, SLAs & Error Budget, Capacity Planning, Observability, Monitoring/Alerting, Release Engineering, and Incident Management/Blameless Post-Mortems and Toil reduction techniques.
* Developed Enterprise DevSecOps and CI/CD pipeline strategies. Designed AWS Networking topology by leveraging Transit Gateway and put proxy (Fortinet) servers to evaluate egress traffic from all AWS accounts within the organization.
* Reduced Cloud operating cost by 80% by implementing a shared VPC Interface endpoints model across 70+ AWS accounts.
* Ability to develop Ansible roles/playbooks for configuring ISAM with backend components such as Tomcat/Oracle.
* Strong experience in setting up CI/CD environments using Jenkins / Spinnaker/GitLab/TeamCity/GitOps methos using ArgoCD or equivalent. Hands-on experience in Code Quality Analysis such as SonarQube.
* Demonstrable Experience with amazon web services (Route53, EC2, ELB, VPC, ACLs, and VPN tunnels, CloudFormation, CloudFront, networking and security, ECS, EKS, RDS, Elastic Cache, EBS & S3)
* In-depth scripting with Terraform, PowerShell, Bash, and Python. Experience with YAML and parsing using Python.
* Experience in Site Reliability Engineering, managing (SLO, SLIs, SLAs & Error Budget, and Toil reduction techniques)
* Extensively worked on Jenkins/Ansible/Bamboo/Docker by installing, configuring, and maintaining the continuous integration (CI) and for End-to-End automation for all build and deployments.
* Experience with managing federated identities using IBM/Azure cloud. Extensive knowledge of SAML, XAML, OAUTH and OIDC.
* Advanced understanding of application monitoring stack (Logs, Events Metrics, Traces & Alerts) and ability to visualize and set up end-to-end observability (Infrastructure and Application components using tools such as Prometheus, Nagios, FluentD, ELK/EFK, and Grafana, Open Telemetry, Jaeger, Application Performance Monitoring (APM) tools - AppDynamics, Dynatrace, Datadog, OpsCruise, Solar Winds, AWS XRay, Azure Monitor, Google Stack Driver, etc.
* Experience in containerization technologies like Docker and Kubernetes. Solid understanding of SSL/TLS certificate concepts.
* Lead effort to monitor, alert, & report on overall system health by tracking Service Level Indicators (SLIs) and Service Level Objectives (SLOs), Operating Level Agreements (OLAs), Automation, TOIL elimination, increase MTTR and MTBF, incident response, and APM instrumentation.
* Experience building and setting up system and application monitoring Splunk (Prometheus/Grafana or equivalent) and experience with data pipelines such as Kafka.
* Used Groovy to write scripts for configuration management tools like Ansible.
* Used Jenkins pipelines to drive microservices built with maven then deployed to Kubernetes. Created custom Docker container images, tagging, and pushing the images to Docker registry.
* Knowledge of load balancing and setting up load balancer and firewall rules in an enterprise environment.
* Experienced in Installing, Upgrading, Patching, Configuring and Administering Red Hat Linux, Virtualization
* Strong analytical and conceptual skills in database related work creating complex stored procedure, Functions using SQL.
* Proven ability in understanding system requirements, system architecture design, development, testing/QA, and production Environment setup

## WORK EXPERIENCE

## AT&T TELECOMMUNICATIONS, PLANO, TX APR 2022 – Current Role: DEVOPS LEAD & SRE ENGINEER

## Responsibilities:

* Building IBM Security Access Manager/ IBM Security Verify Access Client Onboarding and new Appliances with Ansible python automation. Configure fix packs interfaces, networking, policy servers and LDAPs in IT, CT, Pre-Prod, Perf and DEV Environments.
* Working on Web Seal Junctions, DNS request, SSL/TLS certificate renewals, Mapping Rules, Access policies, Template files. Using PyCharm, Code Cloud, Git Bash, I track, JIRA Align tools.
* Install ISO Re-Image on ISAM Servers from 9.0.7 to 10.0.3 v by logging into VMWare vSphere Client and validating with CLI.
* Configured fluentd to collect the logs from all the nodes on the K8s cluster and ship them to Splunk using HEC token for tracing cluster logs and application logs created alerts based on the log output for any 400 and 500 status codes so that the issues can be traced and fixed with in the SLA and to make sure the applications are not highly affected. Automated the application deployments to Kubernetes using YAMLs and later migrated to HELM charts and maintain all the helm charts in the relevant repositories.
* Developed Tomcat Upgrades 9.54 to 9.69 and involved Perf sync End to End in the Tomcat involvement code setup process.
* Experience in Install, configures, and maintains the MySQL database server.
* Provision and maintain the necessary infrastructure for running Athena, including setting up Amazon S3 buckets to store data and configuring necessary AWS services.
* Integrating Apigee deployment processes into CI/CD pipelines
* Implemented backup and disaster recovery strategies for Apigee configurations and data.
* Upgraded/migrated SQL Server – RDS and EC2 instances in Windows environment with minimum to no downtime.
* Created AWS RDS and EC2 CloudWatch alarms for all metrics.
* Came up with solution to use GitOps methodology using ArgoCD for continuous deployments for all environments.
* Design, build and maintain data platform infrastructure on AWS Cloud Services in accordance with Security and Standards. leveraging services/features: EC2, API Gateway, VPC, S3, IAM, EBS, ECS, SGs, ASGs, AWS lambda, RDS, S3, SQS, SNS, SES Elastic Cache, CloudFront, KMS, CloudWatch, CloudTrail, SFTP, DynamoDB and Config, Serverless & Container services like EKS, ECS and Fargate and IaC automation with (CloudFormation, Ansible), Terraform
* With APM, Datadog offers in-depth insights into application performance, including traces, request/response details, and code-level visibility.
* Defined IAM policies, standards, and guidelines Ensured that policies are accurately implemented in IAM systems and tools.
* Design, deploy, and manage container-based applications on Kubernetes, working with Docker images, Docker Files, and Docker registries.
* Establish comprehensive monitoring and alerting systems to track system performance metrics and identify performance issues through Solar Winds Datadog or Dynatrace or OpsCruise /Splunk/AppDynamics.
* Certs Renewal and SDV scans and Perf Tuning were involved in Tomcat Apache Servers.
* As an AWS Engineer experienced with Monitor policy compliance and evaluates the effectiveness of policies.
* Utilizing Datadog's log management capabilities to analyze and visualize log data.
* Creating SAML federations/OpenID connect to implement SSO between various trusted applications.
* Implement Active directory integration/ LDAP integration for credential validation against LDAP or AAD.
* Worked exclusively on VMware vSphere virtual environment. Doing Validations by using postman
* Set up monitoring and logging for Athena queries to gain insights into query performance and identify any potential issues.
* Manages the overall configuration of SQS queues, access controls, and settings.
* Develops and maintains the systems, applications, or endpoints that receive and process messages from SNS.
* For each junction, configure ACLs, pops, and other LDAP extended attributes in ISAM and Tomcat.
* Installing, configuring, and maintaining CI, Automation and Container management tools like Kubernetes.
* Working with Firewall teams, load balancer teams, Operations team to implement Load balancing and networking.
* Deployed the SSL/TLS Certificates on application servers like Tomcat and Apache
* Ability to develop Ansible roles/playbooks for configuring ISAM and other infrastructure related components such as tomcat/oracle.
* Built from scratch a development workflow, continuous integration and deployment pipeline using AWS CodeCommit, CodeBuild, CodePipeline, Terraform, Docker
* Jenkins pipelines are often written in Groovy to define complex workflows, integrate with external tools and services, and handle conditions and error handling. Using Groovy scripting customized Jenkins pipeline behavior and implemented advanced logic and integrations.
* Performed system administration tasks like Log Monitoring using Splunk, Nagios, Patching, etc.
* Created Azure DevOps pipelines and provided continuous eye on Developing and debugging. Building and Installing servers through Azure Resource Manager Templates or Azure Portal.

**Environment:** GIT, Maven, PyCharm, Jenkins, Code Cloud, Datadog, Lambda, Groovy, Tomcat Apache, Git Bash, Itrack, JIRA, Splunk, ISAM/ISVA, Azure, ArgoCD, AWS RDS, Docker, Ansible Tower, HelmChart, SQS, SNS, Dynatrace, Shell Scripting, GitHub, Bash, Azure, CI/CD, Splunk/Nagios, Helm, Prometheus, Grafana, CloudWatch, CloudFormation, Docker, Kubernetes, Bash.

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## CONDUENT, RALEIGH, NC NOV 2019 – APR 2022 Role: DEVOPS & SRE ENGINEER Responsibilities:

* + Delivered DevOps pipelines that apply automation to the software development process and improve the efficiency, security, stability, and quality of applications being delivered by project and product teams.
  + Setup Docker on Linux and configured Jenkins to run under Docker host.
  + The project also involves migrating an On-Premises infrastructure set up to Azure that involves creation of automation scripts and integrating with continuous integration with Jenkins.
  + Using Cloud Bees Jenkins we provided users additional roles with enhanced capabilities for role-based access control (RBAC).
  + Configured the build jobs in Jenkins to automate the builds of IOS, Android and Java applications using Groovy and Maven and deployed the successfully built artifacts into the Artifactory.
  + As an AWS IAM Defines and establishes access control policies and guidelines for the organization's resources, systems, and applications. Automated deployment and scaling of applications using AWS services such as EC2, S3, RDS and Elastic Beanstack
  + Experience in Ansible to automate running of tasks from multiple nodes. Implemented Helm-charts for the deployments.
  + Automated cloud deployments using Ansible, Python and Terraform templates.
  + Deployed Docker containers using HelmChart into Kubernetes Clusters.
  + Implementing security best practices for EKS clusters, including network policies, RBAC (Role-Based Access Control), and pod security policies.
  + Played an active role in monitoring server performance, network traffic to reduce performance bottleneck by enhanced performance monitoring through Prometheus, Grafana, ELK/EFK and Splunk/SolarWinds/Dynatrace.
  + Data ingestion to one or more AWS/Azure Services – Azure Data Lake, Azure Storage, and processing data in Databricks Python and Spark SQL environment
  + Analyzing cloud usage data and cost metrics to optimize cloud resource utilization and costs with Datadog.
  + Managing and maintaining the infrastructure, deployment processes, and continuous integration/continuous deployment (CI/CD) pipelines related to Apigee's API management platform.
  + Used Groovy scripts to query and process metrics from monitoring systems like Prometheus or to interact with logging tools like ELK stack.
  + Built from scratch a development workflow, continuous integration and deployment pipeline using AWS CodeCommit, CodeBuild, CodePipeline, Azure DevOps Build Pipelines, Azure DevOps Release Pipelines, Azure DevOps Git Repos, Terraform, Docker
  + Monitor system performance and troubleshoot issues using monitoring tools such as Prometheus, Grafana, ELK/EFK, enable white and black box monitoring, to implement MELT (Metrics, Errors, logs, and Traces) and observability, instrumentation, telemetry collection tools such as Open Telemetry, Jaeger, Solar Winds Datadog or Dynatrace or OpsCruise /Splunk/AppDynamics and SolarWinds.
  + Automated the application deployments to Kubernetes using YAMLs and later migrated to HELM charts and maintain all the helm charts in the relevant repositories.
  + In-depth understanding in Web Application Deployments, maintenance, and troubleshooting/monitoring.
  + Upgrading Environments like DEV, TEST, UAT, STAGE after every minor and major releases and Infrastructure support to all environments

**Environment**: Azure, AWS, Java Script, Jenkins, Azure, AWS CLI, EKS, GitLab, Apache Tomcat, Gradle, Kafka, Jenkins, Prometheus, Grafana, SQS, SNS, ArgoCD, Ansible Tower, AWS RDS, HelmChart, Docker, Nexus, Helm, Groovy, Dynatrace, Apache Tomcat, JBoss, Shell, Perl and Ruby, Linux. CI/CD, GIT, JIRA, CloudWatch, CloudFormation, Python, CSS, XML, Bash

## STATE FARM INC, BLOOMINGTON, IL OCT 2018 – OCT 2019 Role: CLOUD, DEVOPS & SRE ENGINEER Responsibilities:

* Take part in the on-call rotation, and incident response as a point of escalation. Perform initial review and triage of production issues escalates.
* Spearhead and manage the recovery of Critical incidents (Outages) with support from the functional leaders and Partner Management Teams. Perform periodic load and scalability testing to establish baselines, drift, and capacity planning.
* As a DevOps Engineer continuously working on the CI/CD pipeline with automation from Azure DevOps for the project in Build & Release areas.
* Used agile methodology and scrum for the development. Worked on integrating with SQL Database, Jira Ticketing system, Jenkins CI tool, and Artifactory.
* Extensive work on making calls to the REST API for various automation toolsets and parsing the JSON output.
* Support application projects and create new applications using python, Maven build tools for application layer modules.
* Involved in creating tables, writing queries, stored Procedures, and Database triggers.
* Configured event triggers that initiate the execution of Lambda functions.
* Defined and manages IAM roles and permissions for Lambda functions.
* Intermediate data persistent in XML files and used EXCEL for exporting data from the application.
* Written test cases for the code and tested and debugged applications; resolved client issues.
* Coordinated the use of Visual Studio Code and working experience in unit, integration, and performance testing.

**Environment:** MS SQL Server, JavaScript, XML, HTML, SNS, SQS, Jenkins, EKS, Datadog, GIT, Visual Studio Code, Nexus artifactory, Lambda, Jfrog, RabbitMQ, Docker, AWS RDS, Ansible, Apache Kafka, Apache Dynatrace, Tomcat, Docker, and Kubernetes.

## APPLE INC, SUNNYVALE, CA Jul 2016 – OCT 2018 Role: DEVOPS & SRE ENGINEER Responsibilities:

* Deploy and monitor scalable infrastructure on Amazon web services (AWS)& configuration management.
* Developed and maintained the continuous integration and deployment systems using Jenkins, ANT, Maven, Nexus, Ansible and Ruby.
* Drive and own the measuring of SLA/SLO/SLI/uptime and ensure the organization is meeting set goals. Build capabilities to ensure 24/7 platform support, site monitoring, and the ability to own uptime & performance SLAs of Dev, QA & Production environments.
* Deployed multi-tier application onto AWS cloud and automated required configurations using Terraform.
* Support application projects and create new applications using python, Maven build tools for application layer modules.
* Having experience on Automated OpenStack and AWS deployment using Cloud Formation, heat, Ansible, chef and Terraform and Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash and Terraform.
* Developed automation scripts or used AWS services like AWS Glue to automate data processing and ETL (Extract, Transform, Load) tasks.
* Automating the provisioning and updating of EKS resources through IaC scripts
* Experience with messaging architectures like RabbitMQ and Kafka.

**Environment:** MS SQL Server, JavaScript, XML, AWS, Python, Shell, HTML, Jenkins, Groovy, GIT, Visual Studio Code, RabbitMQ, Ansible, Jenkins, Docker, AppDynamics, Dynatrace, Datadog, Docker and Kubernetes.

ATOS SYNTEL PRIVATE LTD, INDIA Jun 2012 to Aug 2014

Role: APPLICATION ENGINEER

**Responsibilities:**

* Worked on critical requirements for the design, development, and integration of complex systems, apps, services, and APIs that process millions of transactions per day.
* Have complete knowledge of maven scripts for deploying and wrote the scripts and POM.xml for multiple projects.
* Created SVN branches for all the individual modules. Responsible for all the mergers regarding the Release.
* Involved in daily scrum calls and On-site Off-shore meetings with the product.
* Used SonarQube to monitor the code quality of the project. Integrated it with Maven to have the full details of the coding standards.
* Used Hudson/Jenkins integrated with Maven to perform automated Builds and Deployments.
* Created Cron jobs for multiple applications to be deployed at specific times.
* Deployed using Admin console into Tomcat Application Servers.
* Build artifacts (war and ear) are deployed into a Tomcat app server by integrating with Shell Scripts to automate.
* Experience with Oracle and MS SQL Server DB Tasks.
* Maintained configuration files for each application for build purposes and installed them in different environments.
* Implemented GUI pages by using JSP, JavaScript, CSS, and HTML.
* Used WinSCP as a debugging tool for monitoring the logs.

**Environment:** SVN, ANT, Maven, Jenkins, Hudson, Artifactory, Tomcat, RedHat, Java, Apache, SonarQube, RAD, HTML, JSP, JavaScript, CSS, Bash shell script.