 

**Sridhar Nakka**. **MBA(IT), AMIE(I), Chartered Engineer(India).**

**Cloud | Infra | DevOps | Site Reliability Engineer**

**Mob: 7138947739**

**Email: nakkasridhar@gmail.com**

Linkedin: <https://www.linkedin.com/in/sridhar-nakka-7b678217>

Badges: <https://www.credly.com/users/sridhar-nakka/badges>

**OBJECTIVE:**

* **Expertise in Cloud Engineering:** With 15+ years in IT and certifications in ITIL, Red Hat Linux, AWS, Azure, and GCP, I specialize in developing robust cloud infrastructure security strategies. My focus is on safeguarding mission-critical applications across both private and public multi-cloud environments, utilizing advanced security code elements tailored for Kubernetes. This ensures comprehensive protection and compliance across the cloud spectrum.
* **Proven Leadership in Hybrid Multi-Cloud Security:** My career highlights include leading the security aspect of enterprise-wide hybrid multi-cloud strategies, emphasizing automation, and compliance. I've successfully designed and implemented security frameworks that establish strong security postures, enabling secure digital transformation efforts.
* **Commitment to Innovation and Operational Excellence:** Eager to leverage my deep expertise in cloud platforms such as Azure, GCP, OCI, and AWS, I aim to drive innovation and continuous improvement in cloud infrastructure and security practices. My goal is to deliver impactful, scalable security solutions that align with organizational objectives and mitigate risks effectively.

**PROFESSIONAL SUMMARY:**

* **Over 10+ years of hands-on experience** in SRE, Cloud, and DevOps roles, specializing in the management & optimization of cloud infrastructures across major platforms including Azure, GCP, & AWS. I bring deep experience across the full SDLC, particularly in cloud-native environments. On the backend, I’ve worked with Python for scripting, infrastructure automation, and REST API development — including projects using Flask and FastAPI. On the frontend, I’ve built dashboards and internal tools using Vue.js integrated with cloud-based APIs. My CI/CD expertise spans Azure DevOps, Jenkins, GitHub Actions, and GitOps workflows using Helm and Tekton. I’ve also worked with Kafka and RabbitMQ for real-time data handling. While Linux is my core platform, I’ve supported mixed environments with Windows as well. My approach combines strong DevOps practices with full-stack agility, always aligned to scalable and secure deployments. As a hands-on engineering leader, I bring deep experience building automation and observability solutions for large-scale cloud infrastructure and data platforms. While my core expertise lies in cloud DevOps and infrastructure as code, I have supported and optimized PySpark pipelines, built Python-based observability layers, and contributed to testing and deployment of data transformation pipelines on AWS and Azure. I bridge DevOps and data engineering teams to deliver scalable, reliable, and secure data solutions.
* **Proficient in designing, implementing, and managing cloud-based solutions** on Azure, GCP, OCI and AWS, with a deep understanding of cloud architecture principles and best practices.
* **Advanced expertise in Infrastructure as Code (IaC)** using tools like Terraform and Cloud Formation, including extensive experience with Terraform Sentinel for writing custom rules and policies to enforce security and compliance standards within cloud environments.
* **Skilled in container orchestration** with Kubernetes, Docker, and related containerization technologies, enhancing deployment efficiency and scalability.
* **Proven ability to automate tasks and workflows** with scripting languages (Python, Bash), significantly improving operational workflows and reducing manual intervention.
* **Experienced in setting up, monitoring, and managing CI/CD pipelines**, ensuring seamless software delivery and integration processes.
* **Robust knowledge and application of Service Control and Security Policies** for cloud environments, particularly in GCP, with a strong understanding of security policy implementation in Azure and AWS as secondary preferences. This includes crafting and applying comprehensive security policies to safeguard cloud resources and data.
* **Cloud engineering experience across the top public clouds** (AWS, GCP, Azure, OCI), focusing on deploying and managing scalable, secure, and resilient cloud architecture.

**ROLES & RESPONSIBILITIES:**

* Design, implement, and maintain secure, scalable cloud-based infrastructure across Azure, GCP, OCI, and AWS.
* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Developed backend APIs using Node.js (Express) for internal tools, metrics dashboards, and automation interfaces in AWS/GCP environments.
* Integrated Vue.js components with RESTful APIs for monitoring dashboards and configuration portals supporting DevOps workflows.
* Conducted vulnerability assessments using Tenable Nessus to identify security risks across Linux, Windows, and cloud environments; collaborated with DevSecOps teams to prioritize remediation and ensure compliance with PCI, HIPAA, and DFARS standards.
* Deployed and maintained Trend Micro Deep Security and Apex One for host-based intrusion prevention (HIPS), anti-malware, and real-time monitoring across on-prem and cloud-based infrastructure.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Develop and execute infrastructure scaling strategies and maintain IaC templates using Terraform, Cloud Formation, ARM, and Deployment Manager.
* Collaborated with data engineering teams to develop and optimize PySpark-based data pipelines on AWS EMR and Azure Synapse, enabling large-scale data processing for reporting and analytics.
* Developed Python modules to enhance pipeline observability, logging, and instrumentation, integrating with Grafana, Prometheus, and ELK Stack for real-time data job insights.
* Automated validation, exception handling, and retry logic in ETL pipelines, improving resilience and fault-tolerance in batch and streaming data workflows.
* Contributed to the design of reusable testing frameworks and DevOps pipelines for CI/CD deployment of data engineering components using GitLab CI and Azure DevOps.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Led updates to internal procedures and runbooks as part of patching automation governance reviews.
* Reference to procedural documentation or change management tools/processes used (e.g., ServiceNow, Confluence).
* Designed and implemented a secure, multi-account AWS Landing Zone using AWS Control Tower, aligning with AWS best practices for enterprise-scale cloud adoption.
* Automated the provisioning of baseline AWS environments using AWS Organizations, CloudFormation, and Service Catalog to enforce consistent governance.
* Design and implement cloud networking solutions, including VPC, Subnets, Routing, Security Groups, Transit Gateway, and Direct Connect, ensuring compliance with security best practices.
* Design and deploy high-availability cloud solutions, leveraging platform-specific features to optimize performance and ensure cost-efficiency.
* Manage the development and maintenance of Terraform scripts and modules for provisioning AKS clusters, virtual networks, storage accounts, and other Azure resources.
* Automate infrastructure deployment in Azure environments using Cluster API, Terraform, and Azure DevOps pipelines, with hands-on experience in Azure Kubernetes Service (AKS), Azure Resource Manager (ARM), and Azure CLI.
* Integrate Terraform with infrastructure automation tools and CI/CD pipelines for continuous delivery, including troubleshooting related issues.
* Provided infrastructure support for large-scale Hadoop (HDFS) and Apache Spark clusters across hybrid cloud environments (AWS, Azure, GCP).
* Managed and monitored Cloudera Hadoop, YARN, and MapReduce clusters with integrated observability using Grafana, Prometheus, and Splunk.
* Assisted model developers and data scientists with Spark job tuning, YARN resource allocation, and Hadoop cluster optimization to enhance job performance.
* Designed internal tools and monitoring dashboards using Python, Node.js, and Vue.js to visualize infrastructure health, memory usage, and Spark job metrics.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Developed custom alerts and proactive monitoring strategies for decoupled compute (Spark) and storage (Hadoop) environments.
* Automated Spark and Hadoop service upgrades and configurations in RHEL environments using Ansible and Terraform.
* Collaborated with infrastructure, development, and platform teams to enforce access controls and CI/CD integration across compute clusters.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Supported CI/CD pipelines and artifact management for Spark-based analytics workloads using Jenkins, GitLab CI/CD, and Artifactory.
* Ensured compliance with access and control policies for HPC workloads during deployments and updates.
* Design and implement disaster recovery plans, conduct regular security assessments, and vulnerability scanning to maintain high standards of cloud security.
* Deploy and manage virtual machines, containers, and serverless functions on cloud platforms, ensuring 24/7 system availability through on-call rotations.
* Created and managed repositories for personal projects, showcasing skills in version control and project management.
* Collaborated with remote team members using GitHub's collaboration features such as pull requests, issues, and project boards, ensuring efficient communication and task management.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Proficient in using Go's tools for code formatting, linting, and documentation (e.g., gofmt, golint, godoc).
* Implemented authentication and authorization mechanisms using Go for secure API endpoints.
* Proficient in configuring and managing networking components including networking plugins, service networking, and Ingress controllers.
* Experienced in designing and implementing network policies to control traffic between pods and enforce security requirements.
* Knowledgeable about integrating Kubernetes clusters with external networking infrastructure, including load balancers, firewalls, and VPNs.
* Familiar with configuring and optimizing DNS resolution, routing, and network segmentation.
* Proficient in Subversion (SVN) for version control, including setup, administration, and daily usage.
* Extensive experience in managing source code repositories using SVN for tracking changes in software development projects.
* Skilled in performing SVN operations such as checkout, commit, update, merge, and branching.
* Implemented branching and merging strategies in SVN for parallel development and code management.

**SKILLS:**

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| --- | --- |
| Hardware | Exadata, Sun Sparc, HP Proliant ML, DL. Dell, IBM and Cisco KVM & Cisco UCS. |
| Operating Systems | Linux (RHEL/Oracle Ent Linux/Suse/Ubuntu/Fedora/CentOS), Solaris, Windows |
| Middleware | Apache, Tomcat, Weblogic & Jboss |
| Clusters | Linux Clusters, VERITAS Clusters and MS Cluster. |
| Architectures | x86 and x86\_64 bit, IBM & Sun SPARC. |
| Scripting & Programming | Shell, Terraform, Yaml, Python, PyCharm, PyTest, Java Script, NodeJs, GoLang, VueJs. |
| Monitoring Tools | ELK Stack, Demisto, Cloud Watch, Prometheus/Grafana, AWS Cloud Trail, Splunk, SCOM, HP NNM. |
| Cloud | Amazon Web Service (AWS), Google Cloud Platform (GCP) and Azure Cloud. |
| Testing & Code Quality | Junit, SonarQube, Checkmarx, OWASP ZAP, Nessus, Veracode, Clair, TerraScan, |
| Compliance Security Tools | Qualis, Nessus, Inspec, **Siemplify, KeyCloak, Auth0, Checkmarx.** |
| Storage | NetApp, EMC, IBM, HP, Actifio (Backup&Recovery product). |
| Virtualization | VMware, RHEVM, MS Virtual PC, Hyper-V & Xenserver, Denode |
| VCS(CI/CD) | Git, GitHub, JFrog, Maven, Pipeline, CodeBuild, CodeCommit, Harness. |
| DBMS | MySQL, Oracle, PostgreSQL, Dynamo DB, Aurora, Bigtable, Informatica, Snowflake |
| Issue Tracking tools | Service Now, IBM Remedy, ITIM, Observability and Grafana. |
| DevOps | EKS, AKS, GKE, Docker, Kubernetes, Jenkins, Ansible, Chef, Puppet and Vagrant. |

**EXPERIENCE**

**BrightSpeed, Charlotte. Apr 2024 to Present.**

**Cloud & DevOps Lead.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Explored Google Distributed Cloud (GDCC) and Anthos to extend GKE workloads to edge clusters and hybrid environments with consistent policy management.
* Integrated GCP IAM with Workload Identity Federation and OIDC-based access models to streamline secure service-to-service communication.
* Provided infrastructure support for large-scale Hadoop (HDFS) and Apache Spark clusters across hybrid cloud environments (AWS, Azure, GCP).
* Collaborated with data engineering teams to develop and optimize PySpark-based data pipelines on AWS EMR and Azure Synapse, enabling large-scale data processing for reporting and analytics.
* Developed Python modules to enhance pipeline observability, logging, and instrumentation, integrating with Grafana, Prometheus, and ELK Stack for real-time data job insights.
* Automated validation, exception handling, and retry logic in ETL pipelines, improving resilience and fault-tolerance in batch and streaming data workflows.
* Contributed to the design of reusable testing frameworks and DevOps pipelines for CI/CD deployment of data engineering components using GitLab CI and Azure DevOps.
* Managed and monitored Cloudera Hadoop, YARN, and MapReduce clusters with integrated observability using Grafana, Prometheus, and Splunk.
* Design and implement cloud infrastructure solutions that meet business needs, focusing on scalability, reliability, and security.
* Implemented full-stack deployment pipelines encompassing VMs, databases (PostgreSQL, Aurora), backend services (Go, Python), and CI/CD integrations using Jenkins, GitHub Actions, and Harness.
* Designed and deployed observability frameworks using Grafana, Prometheus, and Splunk for performance baselining and actionable insights.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Collaborated with app dev and platform teams to define and implement non-functional requirements including fault tolerance, auto-scaling, cost governance, and compliance (HIPAA, GDPR).
* Integrated SonarQube and Artifactory into CI/CD flows to ensure code quality, artifact control, and secure deployments across multi-cloud environments.
* Design and implement cloud networking solutions, including VPC, Subnets, Routing, Security Groups, Transit Gateway, and Direct Connect, ensuring compliance with security best practices.
* Designed and implemented a secure, multi-account AWS Landing Zone using AWS Control Tower, aligning with AWS best practices for enterprise-scale cloud adoption.
* Automated the provisioning of baseline AWS environments using AWS Organizations, CloudFormation, and Service Catalog to enforce consistent governance.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Conducted vulnerability assessments using Tenable Nessus to identify security risks across Linux, Windows, and cloud environments; collaborated with DevSecOps teams to prioritize remediation and ensure compliance with PCI, HIPAA, and DFARS standards.
* Deployed and maintained Trend Micro Deep Security and Apex One for host-based intrusion prevention (HIPS), anti-malware, and real-time monitoring across on-prem and cloud-based infrastructure.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Oversee CI/CD pipelines, ensuring efficient deployment, testing, and monitoring processes.
* Developed backend APIs using Node.js (Express) for internal tools, metrics dashboards, and automation interfaces in AWS/GCP environments.
* Integrated Vue.js components with RESTful APIs for monitoring dashboards and configuration portals supporting DevOps workflows.
* Develop and maintain IaC templates (e.g., Terraform, CloudFormation) for automated provisioning and scaling of infrastructure.
* Work closely with software developers to integrate DevOps best practices into the software development lifecycle.
* Implement robust monitoring, logging, and alerting solutions to ensure high availability and performance of cloud environments.
* Ensure cloud environments adhere to best security practices and compliance standards (e.g., GDPR, HIPAA).
* Automate manual processes and enhance operational efficiency through scripting (e.g., Bash, Python, or PowerShell).
* Monitor and manage cloud resource usage to optimize costs while maintaining performance.
* Led updates to internal procedures and runbooks as part of patching automation governance reviews.
* Reference to procedural documentation or change management tools/processes used (e.g., ServiceNow, Confluence).
* Lead and mentor the DevOps team, fostering a culture of collaboration, innovation, and continuous improvement.
* Develop and implement robust disaster recovery strategies and backup solutions for cloud environments.

**Environment**: AWS, GCP and Azure, Terraform, Jenkins, GitLab CI/CD, GitHub, Docker, Red Hat Linux

**Experian, CA Oct 2023 to Mar 2024.**

**Cloud Architect | DevOps Engineer.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Created CI/CD pipelines with Jenkins, GitLab CI/CD, and Cloud DevOps techniques, cutting deployment times by 40% and enhancing operational efficiency.
* Designed and implemented a secure, multi-account AWS Landing Zone using AWS Control Tower, aligning with AWS best practices for enterprise-scale cloud adoption.
* Assisted model developers and data scientists with Spark job tuning, YARN resource allocation, and Hadoop cluster optimization to enhance job performance.
* Collaborated with data engineering teams to develop and optimize PySpark-based data pipelines on AWS EMR and Azure Synapse, enabling large-scale data processing for reporting and analytics.
* Explored Google Distributed Cloud (GDCC) and Anthos to extend GKE workloads to edge clusters and hybrid environments with consistent policy management.
* Integrated GCP IAM with Workload Identity Federation and OIDC-based access models to streamline secure service-to-service communication.
* Developed Python modules to enhance pipeline observability, logging, and instrumentation, integrating with Grafana, Prometheus, and ELK Stack for real-time data job insights.
* Automated validation, exception handling, and retry logic in ETL pipelines, improving resilience and fault-tolerance in batch and streaming data workflows.
* Contributed to the design of reusable testing frameworks and DevOps pipelines for CI/CD deployment of data engineering components using GitLab CI and Azure DevOps.
* Designed internal tools and monitoring dashboards using Python, Node.js, and Vue.js to visualize infrastructure health, memory usage, and Spark job metrics.
* Designed and implemented RESTful APIs using Lambda functions, Python, and API Gateway.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Implemented authentication, authorization, and tokenization mechanisms for API security.
* Optimized API performance and latency by leveraging AWS infrastructure and services.
* Utilized step functions and Terraform for infrastructure and API development.
* Experienced in GitHub Actions, Workflows, Standardization.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Developed and maintained RESTful APIs, focusing on automated unit testing and ensuring code quality.
* Created and managed repositories for personal projects, showcasing skills in version control and project management.
* Collaborated with remote team members using GitHub's collaboration features such as pull requests, issues, and project boards, ensuring efficient communication and task management.
* Deployed Node.js and Vue.js applications using Docker containers in Kubernetes clusters (EKS, GKE) with CI/CD pipelines.
* Contributed to the development and debugging of Node.js services that connected cloud infrastructure telemetry to frontend dashboards.
* Implemented the automation of API Gateway solutions in AWS using Terraform, contributing to the seamless management of AWS Service Catalog, REST, and HTTP API Enterprise Gateway with Okta Authentication.
* Developed and maintained backend services and microservices using Go for scalable and high-performance applications.
* Implemented RESTful APIs and web services using Go's standard HTTP package.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Demonstrated project management and architectural prowess in cloud environments, particularly with Rancher/Kubernetes in AWS and OCP, driving technical excellence and innovation.

**Environment**: AWS, GCP and Azure, Terraform, Jenkins, GitLab CI/CD, GitHub, Docker, Red Hat Linux

**Texas Health and Human Services Commission (HHSC), TX Apr 2023 to Sep 2023.**

**Cloud Architect | DevOps Engineer.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Designed and implemented a secure, multi-account AWS Landing Zone using AWS Control Tower, aligning with AWS best practices for enterprise-scale cloud adoption.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Conducted vulnerability assessments using Tenable Nessus to identify security risks across Linux, Windows, and cloud environments; collaborated with DevSecOps teams to prioritize remediation and ensure compliance with PCI, HIPAA, and DFARS standards.
* Deployed and maintained Trend Micro Deep Security and Apex One for host-based intrusion prevention (HIPS), anti-malware, and real-time monitoring across on-prem and cloud-based infrastructure.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Collaborated with data engineering teams to develop and optimize PySpark-based data pipelines on AWS EMR and Azure Synapse, enabling large-scale data processing for reporting and analytics.
* Developed Python modules to enhance pipeline observability, logging, and instrumentation, integrating with Grafana, Prometheus, and ELK Stack for real-time data job insights.
* Automated validation, exception handling, and retry logic in ETL pipelines, improving resilience and fault-tolerance in batch and streaming data workflows.
* Contributed to the design of reusable testing frameworks and DevOps pipelines for CI/CD deployment of data engineering components using GitLab CI and Azure DevOps.
* Automated the provisioning of baseline AWS environments using AWS Organizations, CloudFormation, and Service Catalog to enforce consistent governance.
* Developed custom alerts and proactive monitoring strategies for decoupled compute (Spark) and storage (Hadoop) environments.
* Automated Spark and Hadoop service upgrades and configurations in RHEL environments using Ansible and Terraform.
* Implemented full-stack deployment pipelines encompassing VMs, databases (PostgreSQL, Aurora), backend services (Go, Python), and CI/CD integrations using Jenkins, GitHub Actions, and Harness.
* Designed and deployed observability frameworks using Grafana, Prometheus, and Splunk for performance baselining and actionable insights.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Collaborated with app dev and platform teams to define and implement non-functional requirements including fault tolerance, auto-scaling, cost governance, and compliance (HIPAA, GDPR).
* Integrated SonarQube and Artifactory into CI/CD flows to ensure code quality, artifact control, and secure deployments across multi-cloud environments.Prioritized GCP as the primary platform for security policy implementation.
* Designed policies for regulatory compliance, data protection, and access control.
* Used JavaScript and Vue.js to build lightweight web interfaces for managing Terraform modules and cloud deployment status.
* Built internal full-stack proof-of-concept tools using Vue.js + Node.js stack to visualize cloud costs, alerts, and compliance metrics.
* Developed and maintained backend services and microservices using Go for scalable and high-performance applications.
* Implemented RESTful APIs and web services using Go's standard HTTP package.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Proficient in using Go's tools for code formatting, linting, and documentation (e.g., gofmt, golint, godoc).
* Implemented authentication and authorization mechanisms using Go for secure API endpoints.
* Designed and deployed scalable, highly available cloud solutions.
* Leveraged platform-specific features to optimize performance.
* Hands On experience with OWASP security risks.
* Having Knowledge in MQ, Kafka, RabbitMQ. Having knowledge in Grafana, Prometheus.
* Experience with Hadoop ecosystem components - HDFS, YARN, MapReduce & cluster management tools like Ambari or Cloudera Manager, Pepper Data and related technologies.
* Proficient in scripting, Linux system administration, networking, and troubleshooting skills. Having Knowledge of XLR.
* Configured device-to-cloud and cloud-to-device messaging protocols within Azure IoT Hub for efficient data transfer.
* Integrated Azure IoT Hub with various IoT devices, sensors, and gateways to enable seamless communication and data collection.
* Led updates to internal procedures and runbooks as part of patching automation governance reviews.
* Reference to procedural documentation or change management tools/processes used (e.g., ServiceNow, Confluence).
* Implemented security features such as device authentication and access control policies in Azure IoT Hub to ensure data integrity and confidentiality.
* Actively monitored and managed repository issues and pull requests, ensuring timely resolution and effective collaboration with contributors.
* Proficient in configuring and managing networking components including networking plugins, service networking, and Ingress controllers.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.

**Environment**: AKS, Azure CLI, Azure Resource Manager (ARM), Cluster API, CAPI, CAPZ, Azure DevOps pipelines, YAML Scripts, Git, CI/CD pipelines, Jenkins, Harness, Artifactory, Oracle Cloud Infrastructure (OCI), Google Cloud Platform (GCP), Terraform, Terraform Sentinel, Service Control Policies (SCPs), OWASP, GDPR, HIPAA, GitHub, Docker, Kubernetes, Red Hat Linux, Satellite Servers, Shell Scripting, AWS, Azure, GCP, Okta.

**Chubb – TX Aug 2022 to Mar 2023.**

**Cloud Architect | DevOps Engineer.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Implemented CI/CD pipeline with Jenkins & Harness.
* Experience integrating Artifactory for images, 3rd party libraries and other artifacts.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Explored Google Distributed Cloud (GDCC) and Anthos to extend GKE workloads to edge clusters and hybrid environments with consistent policy management.
* Integrated GCP IAM with Workload Identity Federation and OIDC-based access models to streamline secure service-to-service communication.
* Led the migration initiative to transition on-premises infrastructure and workloads from AWS to Oracle Cloud Infrastructure (OCI).
* Implemented deployment strategies such as blue-green deployments, rolling deployments, and canary deployments in Octopus Deploy.
* Collaborated with infrastructure, development, and platform teams to enforce access controls and CI/CD integration across compute clusters.
* Conducted vulnerability assessments using Tenable Nessus to identify security risks across Linux, Windows, and cloud environments; collaborated with DevSecOps teams to prioritize remediation and ensure compliance with PCI, HIPAA, and DFARS standards.
* Deployed and maintained Trend Micro Deep Security and Apex One for host-based intrusion prevention (HIPS), anti-malware, and real-time monitoring across on-prem and cloud-based infrastructure.
* Supported CI/CD pipelines and artifact management for Spark-based analytics workloads using Jenkins, GitLab CI/CD, and Artifactory.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Ensured compliance with access and control policies for HPC workloads during deployments and updates.
* Collaborated with development and operations teams to streamline the deployment pipeline and improve overall release management practices using Octopus Deploy.
* Used JavaScript and Vue.js to build lightweight web interfaces for managing Terraform modules and cloud deployment status.
* Built internal full-stack proof-of-concept tools using Vue.js + Node.js stack to visualize cloud costs, alerts, and compliance metrics.
* Provided training and documentation for team members on Octopus Deploy best practices and usage guidelines.
* Developed migration strategy and roadmap, including assessment of current AWS environment, identification of OCI equivalents, and risk mitigation plans.
* Implemented lift-and-shift, re-platforming, and cloud-native migration strategies based on application requirements and business objectives.
* Implemented web scraping scripts using BeautifulSoup and Selenium to gather data from websites for analysis.
* Utilized Python scripting for system administration tasks, including log file analysis, monitoring, and maintenance.
* Collaborated with cross-functional teams to develop and deploy Python scripts for application integration and workflow automation.
* Proficient in writing efficient and maintainable code following best practices and coding standards.
* Developed and maintained backend services and microservices using Go for scalable and high-performance applications.
* Implemented RESTful APIs and web services using Go's standard HTTP package.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Proficient in using Go's tools for code formatting, linting, and documentation (e.g., gofmt, golint, godoc).
* Implemented authentication and authorization mechanisms using Go for secure API endpoints.
* Utilized Terraform and Ansible to automate provisioning, configuration, and deployment tasks during the migration process.
* Hands On experience with OWASP security risks.
* Experience with Hadoop ecosystem components - HDFS, YARN, MapReduce & cluster management tools like Ambari or Cloudera Manager, Pepper Data and related technologies.
* Implemented GitHub workflows and branching strategies to facilitate parallel development efforts and feature releases within development teams.

**Environment**: Docker, Kubernetes, Red Hat Linux, Satellite Servers, Shell Scripting, AWS, Azure and GCP.

**WPP – NY Remote Aug 2021 - Aug 2022**

**Cloud Architect | DevOps Engineer.**

* Involved in writing various custom Ansible Playbooks for deployment orchestration on AWS and developed Ansible Playbooks to simplify and automate day-to-day server administration tasks.
* Migrated VMware VMs from on-premise to cloud and migrated applications.
* Handled Linux/Centos servers to serve as Jenkins Agents and created automation for disk cleanup tasks.
* Managed multi-cloud environments comprising Azure, GCP, and AWS resources.
* Led the migration initiative to transition on-premises infrastructure and workloads from AWS to Oracle Cloud Infrastructure (OCI).
* Provided infrastructure support for large-scale Hadoop (HDFS) and Apache Spark clusters across hybrid cloud environments (AWS, Azure, GCP).
* Managed and monitored Cloudera Hadoop, YARN, and MapReduce clusters with integrated observability using Grafana, Prometheus, and Splunk.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Experience in IAM platforms (e.g., Okta, Azure AD, AWS IAM), Multi-factor authentication (MFA), Access control models (RBAC, ABAC), Identity lifecycle management.
* Having Knowledge in MQ, Kafka, RabbitMQ. Having knowledge in Grafana, Prometheus.
* Configured device-to-cloud and cloud-to-device messaging protocols within Azure IoT Hub for efficient data transfer.
* Integrated Azure IoT Hub with various IoT devices, sensors, and gateways to enable seamless communication and data collection.
* Implemented GitHub workflows and branching strategies to facilitate parallel development efforts and feature releases within development teams.
* Experienced in designing and implementing network policies to control traffic between pods and enforce security requirements.
* Knowledgeable about integrating Kubernetes clusters with external networking infrastructure, including load balancers, firewalls, and VPNs.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Proficient in using Go's tools for code formatting, linting, and documentation (e.g., gofmt, golint, godoc).
* Implemented authentication and authorization mechanisms using Go for secure API endpoints.
* Implemented security features such as device authentication and access control policies in Azure IoT Hub to ensure data integrity and confidentiality.
* Experience in Access review and certification tools, Single Sign-On (SSO) solutions, Security standards and protocols (SAML, OAuth, OpenID Connect)
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Implemented CI/CD pipeline with Jenkins & Harness.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Implemented web scraping scripts using BeautifulSoup and Selenium to gather data from websites for analysis.
* Utilized Python scripting for system administration tasks, including log file analysis, monitoring, and maintenance.
* Collaborated with cross-functional teams to develop and deploy Python scripts for application integration and workflow automation.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Used JavaScript and Vue.js to build lightweight web interfaces for managing Terraform modules and cloud deployment status.
* Built internal full-stack proof-of-concept tools using Vue.js + Node.js stack to visualize cloud costs, alerts, and compliance metrics.
* Created and managed repositories for personal projects, showcasing skills in version control and project management.
* Proficient in writing efficient and maintainable code following best practices and coding standards.
* Having experience working with Cluster API, Terraform to automate infrastructure deployment in Azure environments.

**Environment:** AWS, Azure, GCP, Ansible, Terraform, Shell, Python, Linux/Centos/Ubuntu, Jenkins, Docker, Kubernetes.

**National Institutes of Health (NIH) – Center for Information Technology (CIT) – TX Remote Apr 2020 - Aug 2021**

**Cloud Engineer.**

* Hands-on experience with Terraform Sentinel.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Proficient in writing Terraform rules and crafting Sentinel policies.
* Implemented Sentinel policies to automate governance and ensure compliance.
* Implemented Service Control Policies (SCPs) for cloud environments.
* Prioritized GCP as the primary platform for security policy implementation.
* Designed policies for regulatory compliance, data protection, and access control.
* Designed and deployed scalable, highly available cloud solutions.
* Experienced in GitHub Actions, Workflows, Standardization.
* Leveraged platform-specific features to optimize performance.
* Collaborated with remote team members using GitHub's collaboration features such as pull requests, issues, and project boards, ensuring efficient communication and task management.
* Having Knowledge in MQ, Kafka, RabbitMQ. Having knowledge in Grafana, Prometheus.
* Hands On experience with OWASP security risks.
* Experience with Hadoop ecosystem components - HDFS, YARN, MapReduce & cluster management tools like Ambari or Cloudera Manager, Pepper Data and related technologies.
* Proficient in scripting, Linux system administration, networking, and troubleshooting skills. Having Knowledge of XLR.

**Environment:** AWS, Azure, GCP, Ansible, Shell, Python, Linux/Centos/Ubuntu, Jenkins, Docker, Kubernetes, Splunk, Elastic Load Balancer/Nginx, Terraform.

**ABB. TX - Remote May 2018 to March 2020**

**Cloud Engineer.**

* Implemented Sentinel policies to automate governance and ensure compliance.
* Prioritized GCP as the primary platform for security policy implementation.
* Designed policies for regulatory compliance, data protection, and access control.
* Implemented CI/CD pipeline with Jenkins & Harness.
* Utilized Python scripting for system administration tasks, including log file analysis, monitoring, and maintenance.
* Collaborated with cross-functional teams to develop and deploy Python scripts for application integration and workflow automation.
* Experience with Hadoop ecosystem components - HDFS, YARN, MapReduce & cluster management tools like Ambari or Cloudera Manager, Pepper Data and related technologies.
* Having Knowledge in MQ, Kafka, RabbitMQ. Having knowledge in Grafana, Prometheus.
* Proficient in scripting, Linux system administration, networking, and troubleshooting skills. Having Knowledge of XLR.
* Proficient in writing efficient and maintainable code following best practices and coding standards.
* Worked on **AWS Auto Scaling for providing high availability of applications and EC2 instances** based on CPU utilization metrics.
* Configured device-to-cloud and cloud-to-device messaging protocols within Azure IoT Hub for efficient data transfer.
* Experienced in GitHub Actions, Workflows, Standardization.
* Actively monitored and managed repository issues and pull requests, ensuring timely resolution and effective collaboration with contributors.
* Integrated Azure IoT Hub with various IoT devices, sensors, and gateways to enable seamless communication and data collection.
* Implemented security features such as device authentication and access control policies in Azure IoT Hub to ensure data integrity and confidentiality.

**Environment:** AWS, Azure, GCP, Ansible, Shell, Python, Linux/Centos/Ubuntu, Jenkins, Docker, Kubernetes, Splunk, Elastic Load Balancer/Nginx, Terraform.

**Wall Mart. TX - Remote May 2015 to May 2018**

**SRE | Cloud Administrator**

* 24x7 Production support and on-call support on rotation basis, Incident and problem management as part of Cloud Engineering team.
* Experience in Observability and Grafana.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, and Docker. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, and test deploy.
* Expertise in Data center Operations-Designing, implementations of Server Systems for pre prod, prod.

**Environment**: Red Hat Linux, IDM, Satellite Servers, Shell Scripting, AWS.

**Telstra. AU - Remote July 2012 to May 2015**

**Linux Administrator**

* Performed automated installations of Operating System using kickstart for Red Hat Enterprise Linux
* Create, extend, reduce and administration of Logical Volume Manager (LVM) in RHEL environment.
* RPM and YUM package installations, patch and other server management.
* Installation, Configuration and Troubleshooting VXVM, VXFS, VCS Related Issues
* Monitoring system resources, logs, disk usage, scheduling backups and restore.
* Managed ESXi hosts using vCenter Server/ vSphere Client and VMware Web Client.
* Worked on FC optical fiber connectivity between other enterprise storage arrays like IBM, EMC,
* Worked with HP to the NetApp V-Series filers and front-end Linux and Windows client machines.

**Environment**: Red Hat Linux, IDM, Satellite Servers, Shell Scripting.

**JP Morgan Chase. May 2011 to June 2012**

**Linux Administrator**

* Installation and Upgrades of VMware ESX/ESXi O.S. on bare metal hardware systems like **Dell, HP, IBM physical servers.**
* Worked on configuration of RAID disks on the physical servers and boot disks for ESX O.S.
* Prepared Cluster-in-box and Cluster-across-box MSCS setup between VMs.
* Worked on troubleshooting setup issues, test failures and root-causing the failures.
* Worked on reporting Bugs found, follow-up with Developers and closing the bugs once they are fixed.

**Environment**: Red Hat Linux, IDM, Satellite Servers, Shell Scripting.

**Ericsson. Hyderabad. Apr 2010 to May 2011**

**Linux Administrator**

* Build & configure Solaris and Linux servers on various hardware types.
* Written shell scripts to automate the installation and configuration process.
* Activation & deactivation of SAN & NAS storage from host side.
* Storage migration from DMX to VMAX, MSS to EMC.
* Install, upgrade and configure VERITAS volume manager.

**Environment**: Red Hat Linux, SLES, IDM, Satellite Servers, Shell Scripting.

**Moschip Semiconductors. Hyderabad. Jan 2009 to Apr 2010**

**Linux Administrator**

* Build & configure Solaris and Linux servers on various hardware types.
* Written shell scripts to automate the installation and configuration process.
* Activation & deactivation of SAN & NAS storage from host side.
* Storage migration from DMX to VMAX, MSS to EMC.
* Install, upgrade and configure VERITAS volume manager.

**Environment**: Red Hat Linux, SLES, IDM, Satellite Servers, Shell Scripting.

**EDUCATION**

Master’s in IT Management from **All India Management Association**-2017

Bachelors in Computer Science and Engineering from **The Institution of Engineers (India)**-2013

Diploma in Electronics & Communication Engineering from **SBTET, OU** -2001

**CERTIFICATION & TRAINING**

**Certifications**: Red Hat Certified Engineer in Linux Administration. RHCE V4, V7.

AWS Solutions Architect Associate.

Azure 400, DevOps Solutions Architect.

Google Certified Professional Cloud Architect.

ITIL V3 Certified.