SRILATHA

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Professional Summary:

- Results-driven **DevOps** and **Cloud Engineer** with 8+ years of experience designing, deploying, and automating infrastructure across AWS, Azure, GCP, and on-premises environments for enterprise clients, including Aflac, AMEX, and Cisco.
- Expertise **in AWS, Azure**, and **GCP**, providing end-to-end cloud solutions, from infrastructure design to deployment and optimization.
- Strong experience in managing AWS services like **EC2, S3, RDS, Lambda, EKS, CloudFormation**, and **IAM** for scalable, secure, and cost-efficient solutions.
- Hands-on with **Azure** services such as AKS, Azure Functions, Azure Monitor, Azure Data Factory, and Azure Blob Storage, ensuring compliance, scalability, and operational excellence.
- Proficient in **GCP** cloud services, including Compute Engine, Kubernetes Engine, Cloud Storage, Pub/Sub, and BigQuery to deliver high-performance, data-driven cloud solutions.
- Designed and maintained automated CI/CD pipelines using **Jenkins**, Azure **DevOps**, **ArgoCD**, and **Terraform** to streamline application deployments and reduce release cycles by up to 50%.
- Built and optimized production-grade AWS environments, managing **Kubernetes** workloads in EKS, integrating service meshes like Istio, and automating provisioning through Terraform modules.
- Expert in infrastructure-as-code (IaC) using Terraform, Azure Resource Manager (ARM), and Bicep for building reusable, version-controlled infrastructure modules across multiple environments.
- Proficient in managing **AWS** IAM roles, Azure Active Directory (**AAD**), and **GCP** IAM to enforce least-privilege security policies, ensuring secure cloud infrastructure.
- Implemented automated security checks into CI/CD pipelines using tools like **SonarQube**, **Aqua Security**, and **Snyk** to ensure secure deployments and reduce vulnerabilities by 30%.
- Expertise in securing multi-cloud environments using Zero Trust principles, multi-factor authentication (MFA), and identity management tools such as **Okta** and **Auth0**.
- Managed complex networking configurations in **AWS** (VPC, subnets, NAT gateways, ALB/NLB), **Azure** (VNet, VPN, NSG), and **GCP** (VPC, Cloud Load Balancing) to ensure secure and highly available cloud environments.
- Integrated **Istio** service mesh in Kubernetes clusters for microservices observability, security, and traffic management, optimizing service-to-service communication.
- Experienced in service mesh technologies such as **Linkerd** and **Consul** for improved service discovery, resilience, and observability across microservices architectures.
- Delivered scalable serverless solutions using AWS **Lambda**, **Azure** Functions, and **Google** Cloud Functions, minimizing operational overhead and deployment costs.
- Expert in container technologies, including Docker, Kubernetes (**EKS/AKS**), and container orchestration, enabling efficient and scalable cloud-native applications.
- Experience with **Helm** for Kubernetes application management, streamlining deployments, and enabling faster release cycles for cloud-native applications.
- Familiar with **Knative** for Kubernetes-based serverless applications, enabling automatic scaling based on demand with minimal overhead.
- Supported cloud **data** engineering initiatives with **AWS S3, Azure Blob Storage, Databricks, Snowflake, Google BigQuery**, and Azure Data Factory to build reliable, high-performance data pipelines and analytics platforms.
- Expertise in **Apache Kafka, Apache Spark,** and **Flink** for building real-time data streaming pipelines and distributed data processing solutions.
- Collaborated with **data science teams** to deploy machine learning models using **AWS SageMaker, Azure ML Studio**, and **Google AI Platform** for automating data-driven decision-making and intelligent application features.
- Experience integrating AI/ML into cloud environments using tools like **TensorFlow**, **PyTorch**, and **Kubeflow**, enabling businesses to leverage predictive analytics, NLP, and computer vision.
- Implemented **AWS IoT Core, Azure IoT Hub**, and **Google IoT** Core for building scalable edge computing and IoT solutions, enabling businesses to process data closer to the source for real-time insights and reduced latency.

- Experience with Edge computing frameworks, allowing applications to run at the network edge, reducing cloud dependency and enhancing operational speed for IoT devices.
- Proficient in using **AWS CloudWatch, Azure Monitor, Prometheus, Grafana, Splunk**, and **Datadog** for comprehensive system monitoring, proactive incident management, and performance optimization across multi-cloud environments.
- Utilized **OpenTelemetry** and Jaeger for distributed tracing and observability in microservices architectures, enabling rapid identification and resolution of performance bottlenecks.
- Collaborated with cross-functional teams to adopt **DevSecOps** practices, embedding automated security checks into pipelines and reducing deployment vulnerabilities by 30%.
- Led the migration of mainframe systems to **AWS cloud for Aflac**, integrating CA **Endevor** into DevOps workflows, increasing application release velocity, and reducing legacy dependencies.
- Actively engaged in **Agile** and **Scrum** practices, ensuring rapid and iterative delivery of features in alignment with business needs and goals.
- Experienced roles targeting cloud architects, cloud-native development, **DevOps** automation, and cloud security, focusing on multi-cloud strategies, AI/ML deployments, and edge computing solutions.
- Well-versed in **cloud-native Kubernetes** development, including **EKS/AKS/GKE** expertise, service mesh integration, and serverless architecture, all of which are in high demand for many LinkedIn job postings in the DevOps, Cloud Engineering, and SRE spaces.

Technical Skills:

Cloud Platforms	AWS, Azure,GCP
Continuous Integration (CI)	Jenkins, GitLab, Bamboo, Harness, GitHub Actions
Version Control Tools	GIT, Bitbucket, GitHub
Monitoring tools	Nagios, Splunk, Dynatrace, ELK, Datadog, Grafana, New Relic
Infrastructure As Code	Terraform, ARM templates, OpenStack
Configuration Management	Ansible, Chef, Puppet
Containerization and Orchestration	Docker, Kubernetes
Web Servers	Apache Tomcat, Nginx, WebLogic, Web Sphere
Database Systems	Oracle, MySQL, MongoDB, SQL Server, MS SQL, NoSQL, Cassandra DB, DynamoDB
Scripting Languages	Shell, Ruby, Python, PHP, Perl, JavaScript, PowerShell, JSON, YAML.
Application Servers	Apache Tomcat, Nginx, WebLogic, WebSphere

Work Experience:

Aflac Insurance — Sep 2023- Present
Role: SR Cloud DevOps Engineer

Project Description: This project for Alfac Insurance involved designing, implementing, and automating cloud infrastructure and deployment pipelines to streamline application provisioning and management. The goal was to ensure scalability, security, and high availability while reducing manual intervention in cloud resource management and application deployment, ultimately enhancing the company's operational efficiency and agility.

Responsibilities

- Designed and developed enterprise-grade applications for Aflac, focusing on scalability, performance, and security in a mission-critical insurance domain.
- Built modern, responsive UI components using Angular 7+, TypeScript, HTML5, and CSS3, ensuring a seamless user experience across multiple platforms and browsers.
- Developed and maintained Java/J2EE backend services and RESTful APIs using Spring Boot, Spring Batch, Spring MVC, and Spring AOP, contributing to a robust and service-oriented architecture.
- Followed best practices in clean code, version control using Git, and actively participated in code reviews, ensuring high code quality and maintainability.
- Designed and maintained CI/CD pipelines using Jenkins, ArgoCD, Kubernetes (EKS), and terraform to support automated, secure, and reliable deployments in AWS cloud environments.

- Provisioned and managed infrastructure using Infrastructure as Code (IaC) principles via Terraform, ensuring repeatable and consistent deployments across environments (dev, staging, prod).
- Extensive experience configuring and administering Amazon EKS clusters, including node autoscaling, health checks, rolling upgrades, and networking integration for high availability and performance.
- In-depth experience with Helm for package management and deploying applications to Kubernetes clusters.
- Configured and optimized Datadog SaaS for observability in AWS environments, especially in Amazon EKS, enhancing monitoring, alerting, and performance analysis capabilities.
- Implemented OpenTelemetry and configured OpenTelemetry Collectors for distributed tracing and advanced telemetry collection across microservices.
- Developed and maintained custom monitoring and logging solutions using Prometheus, Grafana, Datadog, AWS CloudWatch, and OpenTelemetry to ensure deep observability and fast issue resolution.
- Strong troubleshooting expertise with distributed systems and observability concepts, contributing to improved system reliability and proactive incident response.
- Integrated and managed Istio service mesh to enable microservices observability, security, and traffic control, supporting fine-grained policies and resilience.
- Configured and supported AWS networking, including VPCs, subnets, route tables, NAT gateways, and load balancers (ALB/NLB) for high availability and secure traffic routing.
- Implemented RBAC policies and AWS IAM roles to enforce least privilege and maintain a strong security posture across cloud-native environments.
- Strong scripting skills in Shell and Python, enabling automation of routine operational tasks and rapid incident mitigation.
- Experience with large-scale distributed systems and architecture across Linux/UNIX and Windows, including compute, networking, and storage in both cloud and traditional IT infrastructures.
- Collaborated closely with security and development teams to embed DevSecOps practices into the development lifecycle, improving application quality and reducing deployment risks.
- Actively participated in Agile ceremonies, contributing to sprint planning, stand-ups, and retrospectives, ensuring timely delivery of features in alignment with business goals.
- Led internal demos and walkthroughs for stakeholders at Aflac, showcasing new features, cloud automation, and CI/CD workflows.
- Demonstrated a strong sense of ownership and commitment to continuous learning, staying updated with the latest trends in cloud-native development, DevOps, and microservices architecture.
- Possess a solid understanding of core cloud concepts, including storage, compute, and networking fundamentals in AWS.
- Hands-on experience with Terraform to automate infrastructure provisioning, focusing on Infrastructure as Code (IaC) principles and the creation of immutable infrastructure to enhance scalability, reliability, and security.
- Deep understanding and hands-on experience with GCP core services, including IAM, VPC, Cloud Logging, Security controls, Storage, and Compute. Enabled scalable cloud architectures by leveraging GCP's foundational services in line with best practices.
- Expertise in managing traffic flow with Istio service mesh, enabling fine-grained control over microservices communication. Proficient in configuring Istio for observability, traffic management, and security within microservices architectures, ensuring high availability and resilience.

Environment: AWS,GCP, IAM, S3, EC2, EBS, VPC, CloudWatch, GIt, Docker, Kubernetes, Vagrant, Terraform, Apache, SFTP, Lambda functions, Linux Os, CI/CD, RDS, Route 53, Nginx, CloudFront, TeamCity, EKS, EC2, S3, VPC, ALB/NLB, NAT Gateway, Route Tables

Amex Bank June 2022- Aug 2023
Role: Senior Infrastructure Engineer

Responsibilities

- Led the design and automation of hybrid cloud infrastructure leveraging Azure, AWS, and VMware Tanzu, ensuring scalability, availability, and compliance in a mission-critical financial services environment.
- Designed and deployed secure, high-availability container platforms on Azure Kubernetes Service (AKS) using Helm, Kustomize, and GitOps practices (ArgoCD) to enable efficient, consistent, and auditable microservices deployments.
- Implemented advanced Infrastructure as Code (IaC) using Terraform, Bicep, ARM templates, and PowerShell, enabling version-controlled, repeatable, and modular infrastructure builds across multi-region environments.
- Built enterprise-grade CI/CD pipelines using Azure DevOps, integrating tools like SonarQube, Aqua Security, Checkov, and Snyk to automate secure code analysis, compliance checks, and deployment workflows for Java, .NET, and Python applications.

- Integrated and managed service mesh architecture using Istio for fine-grained traffic routing, mTLS-based encryption, and observability of microservices, aligning with zero-trust security strategies.
- Architected and deployed serverless compute platforms using Azure Functions, Event Grid, and Logic Apps, enabling rapid innovation, event-driven processing, and cost-effective compute solutions.
- Planned and executed infrastructure modernization initiatives, including mainframe-to-cloud workload migrations using Azure Migrate, Azure Arc, and Azure Site Recovery, improving agility and reducing technical debt.
- Enabled observability across distributed systems by configuring Azure Monitor, Log Analytics, Application Insights, and integrating with third-party tools like AppDynamics, Splunk, and Grafana for full-stack visibility and proactive incident resolution.
- Engineered cloud-native data platforms using Azure Synapse Analytics, Data Lake Gen2, Databricks, and Azure Data Factory, empowering near-real-time analytics and BI for global financial operations.
- Enforced enterprise security controls by integrating with Azure AD, implementing Role-Based Access Control (RBAC), Managed Identities, Key Vault, Microsoft Defender for Cloud, and aligning infrastructure policies with NIST, FISMA, and FedRAMP standards.
- Automated governance and compliance monitoring using Azure Policy, Compliance Manager, and Security Center, reducing manual effort and improving audit readiness across regulated environments.
- Spearheaded DevSecOps adoption, embedding security gates, policy as code, and vulnerability scanning into the development pipeline to enhance code quality and reduce attack surfaces.
- Deployed and scaled infrastructure with cloud-native networking including Application Gateway, Private Link, VNet peering, ExpressRoute, and Azure Firewall, ensuring secure and high-throughput connectivity.
- Hands-on experience with cutting-edge technologies such as Confidential computing (Azure Confidential VMs) to protect sensitive data in use.AI/ML model deployment in Azure ML and integration with pipelines
- Event-driven architecture using Kafka and Azure Event Hubs
- Collaborated with enterprise architects and DevOps teams to define cloud reference architectures, enforce tagging policies, cost optimization strategies, and application performance standards.
- Championed continuous improvement and innovation, mentoring junior engineers, participating in cross-functional initiatives, and staying ahead of cloud-native, edge computing, and observability trends.
- Enabled multi-cloud strategies by designing and managing workloads across Azure and AWS using Azure Arc and Terraform Cloud, supporting workload portability, centralized policy enforcement, and hybrid operations.
- Introduced GitOps practices using FluxCD and ArgoCD, transforming legacy deployment pipelines into declarative, audit-friendly workflows and reducing production rollback time by over 60%.
- Led infrastructure cost optimization initiatives, leveraging Azure Cost Management, Savings Plans, AWS Trusted Advisor, and custom dashboards in Power BI to reduce cloud spend by over 25% year-over-year.
- Implemented Policy-as-Code frameworks using OPA (Open Policy Agent) and Azure Policy, ensuring automated governance for resource compliance, security baselines, and drift detection.
- Orchestrated secure API lifecycles using Azure API Management, with centralized routing, throttling, authentication, and observability features across internal and external APIs.
- Deployed distributed caching and messaging solutions with Redis Enterprise, RabbitMQ, and Azure Service Bus, enhancing microservices responsiveness and decoupling architecture.
- Modernized logging strategy by implementing ELK Stack (Elasticsearch, Logstash, Kibana) alongside Azure-native logging tools, creating real-time operational dashboards and log correlation for security forensics.
- Built custom tooling in Python and PowerShell for automating operational tasks like cloud resource tagging, compliance scanning, environment setup, and secrets rotation, cutting down manual intervention and reducing human errors.
- Collaborated with application security teams to integrate container image scanning (Trivy, Aqua) and software composition analysis into container build pipelines, achieving early vulnerability detection and faster remediation cycles.
- Drove the implementation of SRE practices, introducing SLIs/SLOs, error budgets, and blameless postmortems, improving incident response culture and system reliability KPIs.
- Championed blue-green and canary deployments in AKS using Service Mesh and Ingress controllers (NGINX, Azure Application Gateway Ingress) to minimize downtime and control feature rollouts.
- Established secrets and certificate management standards using Azure Key Vault, HashiCorp Vault, and cert-manager, enforcing lifecycle management and encryption best practices across environments.
- Enabled zero-downtime database migrations and version-controlled schema deployments using tools like Liquibase, Flyway, and Azure DevOps release pipelines for PostgreSQL, MySQL, and SQL Server.
- Supported AI and ML platform operations by integrating Azure ML Pipelines, Kubernetes-based model deployments, and GPU provisioning in AKS for high-performance inference.
- Led brownfield to greenfield cloud transition projects, converting monolithic systems into modular services hosted on AKS, utilizing DDD (Domain-Driven Design) and event-driven architecture patterns.

- Integrated Infrastructure Drift Detection using Terraform Cloud, Driftctl, and custom scripts to maintain alignment between deployed and declared infrastructure states.
- Collaborated on organization-wide security compliance efforts to align with PCI-DSS, SOX, and ISO 27001, including continuous evidence collection and automated compliance reports.
- Conducted internal knowledge-sharing sessions and technical bootcamps, mentoring DevOps and infrastructure teams on best practices in GitOps, Kubernetes operations, IaC, and cloud security.

TCS, Mumbai, INDIA. May 2018 – Apr 2022
DevOps Engineer/System Engineer Admin

Project: CISCO
Role: DevOps Engineer Nov 2019 – Apr 2022

Responsibilities

- Created **Splunk** dashboard for the **Artifactory application** and monitored server logs. Configured email notifications, etc., for Artifactory critical errors and worked as a developer and administrator for Artifactory.
- AWS **EC2** Servers patching and Upgradation by the **SSM** service in AWS.
- Creating custom dashboards on **Datadog** to monitor servers' performance, creating alerts and notifications with Datadog queries. Pager duty as a firefighter.
- Worked on Installation, Upgrade, Configuration, Maintenance, Patch/Package management, and Troubleshooting of the Operating systems and services.
- Worked on **AWS resources, VPC, VPC endpoints, step function, and Sege maker**.
- Worked on installing multiple agents on **IAAS** (Infrastructure as a Service, like Splunk, Dynatrace, etc.)
- Snowflake administration, case onboardings, creation of data warehouses, databases, schemas, and sys account creation, granting permissions to the roles to the schemas and tables.
- Data bricks cluster creation and maintaining the workspaces.
- Troubleshooting the S3 path access issues from data bricks and connection issues, scope, and secret creation to establish connections between **Snowflake** and **data bricks**.
- Troubleshooting the connectivity issues from the serverless account to Snowflake.
- Evaluate performance trends and expected changes in demand and capacity, and establish the appropriate scalability plans for Cost optimization.
- Troubleshooting the connectivity issues from serverless. Worked on multiple services **in AWS** like EC2, ECS, IAM, VPCs, Subnets, CloudTrail, S3, Guard Duty, etc.,
- Provided various process improvement recommendations for the High availability of Azure VMs.

Project: Bose
Role: System Engineer Admin May 2018 – OCT 2019

Responsibilities

- Engineered and maintained **Linux/Unix** server infrastructure, including OS installation, kernel parameter tuning, and performance optimization.
- Implemented and managed robust backup and recovery solutions, automating processes with shell scripting and ensuring data integrity across diverse environments.
- Collaborated with network teams on data center maintenance activities, including server reboots and planned downtime procedures.
- Managed **user accounts, groups, privileges**, and **resource permissions**, ensuring secure access control and compliance.
- Installed, configured, and maintained **Apache** web servers and **Java** application servers (WebLogic, WebSphere, Tomcat), including upgrades, patching, and performance tuning.
- Configured and troubleshot essential network services such as **NFS, NIS, DHCP, FTP, LDAP**, and Samba, ensuring seamless network connectivity.
- Implemented and managed clustered environments using WebSphere Application Server, ensuring high availability and fault tolerance.
- Developed and maintained Python scripts for application deployment automation, streamlining release processes, and improving efficiency.
- Implemented and customized JIRA for workflow management, issue tracking, and user collaboration, enhancing team productivity. Configured kickstart and managed patching via **Red Hat Satellite**.

- Deployed and managed applications on physical and cloud infrastructure, specializing in Linux and Tomcat administration for high-traffic websites. Performed security scans of code before deployment.

Environment: MySQL, Linux (Ubuntu), Red hat, WebLogic Server, WebLogic, Sun Solaris, UNIX, Windows, VMware, Microsoft Exchange, DNS, JIRA, Domain Controllers, Java, Eclipse, Python, Install Anywhere, Tomcat Apache Application Server.