A circular logo with a cloud in the center

AI-generated content may be incorrect.A close up of a sign

Description automatically generatedA hexagon with blue and white text

Description automatically generatedRashmi K

Sr SRE DevOps Engineer

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**PROFESSIONAL SUMMARY**

As a **Senior DevOps Data AI Engineer** with IT experience, I excel in implementing and managing **DevOps practices**. My expertise includes **CI/CD pipelines**, **configuration management**, **infrastructure automation**, and **monitoring solutions**. I have a comprehensive skill set across multiple cloud platforms, including **AWS**, **Azure**, and **GCP**, and I am proficient in containerization technologies such as **Docker** and **Kubernetes**.

I worked closely with **Machine Learning teams** to bring their models into production by building automated deployment pipelines using tools like **MLflow**, **Airflow**, and **Docker**. I also set up scalable training environments on platforms such as **AWS SageMaker** and **GCP Vertex AI**. To support stable operations, I implemented monitoring and logging using **Prometheus**, **Grafana**, and **CloudWatch**. This helped ensure performance visibility and faster issue resolution. My role often involved bridging the gap between engineering and data teams to deliver consistent, maintainable, and well-observed **ML workflows**.

* Proven track record in implementing **DevOps practices** to streamline development, deployment, and operations processes, enhancing team collaboration and productivity.
* Extensive experience with cloud platforms such as **AWS**, **Azure**, and **GCP**, adept at designing and managing scalable, secure, and highly available cloud infrastructure using **Infrastructure as Code (IaC)** tools like **Terraform** and **CloudFormation**.
* Seasoned DevOps engineer with experience in designing, deploying, and managing cloud infrastructure on **Azure**, leveraging services like **Azure DevOps**, **AKS**, **VMs**, and **Azure Monitor**.
* Experienced in using **Terraform**, **AWS CloudFormation**, and **Azure Resource Manager (ARM)** templates to automate infrastructure provisioning.
* Skilled in managing infrastructure on **Google Cloud Platform (GCP)**, using services such as **Compute Engine**, **GKE**, **Cloud Functions**, and **BigQuery**.
* Proficient in deploying and managing infrastructure with **Terraform** across **AWS**, **Azure**, and **GCP** for consistent and efficient provisioning.
* Proficient in deploying, managing, and scaling containerized applications using **Kubernetes** on **EKS**, **AKS**, **GKE**, and **OpenShift**.
* Experienced in using **Docker Hub**, **Docker Engine**, **Docker images**, **Docker Compose**, and **Docker Swarm** for efficient containerization.
* Skilled in designing and implementing **CI/CD pipelines** using **Jenkins**, **GitLab CI**, **CircleCI**, and **Azure DevOps**.
* Proficient in using **Git** for version control on platforms like **GitHub**, **GitLab**, and **Bitbucket**, managing branching and conflict resolution.
* Strong scripting skills in **Python**, **PowerShell**, **Bash**, **Shell**, **JavaScript**, and **Groovy** to automate tasks and infrastructure processes.
* Experienced in monitoring and observability tools including **Splunk**, **DataDog**, **Dynatrace**, **Prometheus**, **Grafana**, **ELK Stack**, and **AWS CloudWatch**.
* Familiar with ITSM tools like **JIRA**, **Confluence**, **Wiki**, and **VersionOne** for project management and collaboration.
* Proficient in managing **SQL and NoSQL databases** such as **MySQL**, **PostgreSQL**, **MongoDB**, and **Cassandra**.
* Expertise in repository tools like **Nexus**, **Artifactory**, etc.
* Integrated **GitHub Copilot** to assist in **IaC authoring** and accelerate multi-cloud automation.
* Automated rollback and validation logic in **Jenkins** pipelines using **Trivy**, **Pytest**, and **Terraform** for secure **ML workloads**.
* Provided **production support** for pipelines and workflows including **incident triage**, **Airflow**, and **Tidal troubleshooting**.
* Built and maintained **Power BI** dashboards connected to **AWS Redshift** to deliver **real-time analytics** to business teams.
* **Built automated health-check endpoints** and integrated synthetic monitoring scripts using **FastAPI**, **Postman Monitors**, and **CloudWatch Synthetics**, allowing early detection of application outages before real users were affected.
* **Enabled cost-optimized logging architecture** by restructuring log retention policies, enabling **log sampling**, and offloading verbose service logs to **S3 + Athena**, helping reduce logging costs by 30% in high-traffic environments.
* **Led failure injection and chaos testing exercises** in lower environments using **Gremlin** and custom **Python fault scripts** to validate alert reliability, HA setups, and response time under simulated outages.
* **Created centralized secrets auditing and expiration dashboards** using **Terraform + AWS Secrets Manager metrics**, reducing credential-related incidents and enforcing key rotation across all environments.
* **Facilitated cross-team observability onboarding** by documenting best practices and delivering hands-on workshops for application teams, helping them integrate **dashboards, custom metrics, and alerting policies** into their own CI/CD flows.

**CERTIFICATIONS:**

* AWS Solutions Architect
* Microsoft Azure Developer Associate.
* Google Professional ML Engineer Certificate
* Microsoft Azure AI Engineer Associate
* Microsoft Certified- Data Analyst Associate

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| AI/ML | Scikit-learn, Pandas, NumPy, Kubeflow, MLflow, Vertex AI, TensorFlow, FastAPI, BigQuery, Docker, Kubernetes, SageMaker, Azure ML, PyTorch, TensorFlow |
| Versioning Tools | GCP, AZURE, AWS |
| CI /CD Tools | Jenkins, GitLab, Bamboo, TeamCity, Azure DevOps, AWS CodePipeline |
| Build Tools | Maven, Ant, Gradle, MS Build, NPM. |
| Testing Tools | SonarQube, Fortify, Veracode, Pytest, Postman |
| Artifactory Repository tools | Nexus, JFROG, Docker Hub, ECR (Elastic Container Registry) |
| Operating Systems | Ubuntu, CentOS, Red Hat, Linux, Windows, MacOS. |
| Scripting | Python, YAML, Bash, Shell, PowerShell, JSON |
| Databases | MySQL, SQL Server, MongoDB, DynamoDB, Aurora, PostgreSQL, Redis. |
| Configuration Management Tools | Terraform/Concourse, Ansible, AWS CloudFormation |
| Container Tools | Docker, Docker Swarm, Kubernetes, Amazon ECS, EKS. |
| Monitoring Tools | Cloud watch, New Relic, Nagios, Splunk, Prometheus, Grafana, App Dynamics, CloudTrail. |
| Bug Tracking Tools | JIRA, Remedy, Bugzilla, Service Now. |
| Cloud | GitHub, GIT, GitLab, Bitbucket. |

**WORK EXPERIENCE  
  
 CVS Health Corporation**

**Sr SRE DevOps Engineer Sep 2024 – May 2025**

**Responsibilities:**

* Led enterprise-grade infrastructure automation on **Google Cloud Platform,** managing resources like **GKE, Cloud Run, Cloud Functions, VPCs,** and **Load Balancers** through **Terraform**. Defined organization-wide **IaC** standards using remote state backends, service accounts, and network peering to enable secure, multi-project deployments.
* Led the onboarding of over **400+ applications** into a standardized **observability framework** across **GCP**, establishing **monitoring, logging, and alerting** practices based on service tiers and SLAs, which drastically improved visibility and operational readiness.
* Collaborated with **application teams** to assess upstream/downstream dependencies, SLI/SLO definitions, and custom dashboard requirements, enabling tailored observability coverage from **infrastructure to application** layer.
* Developed reusable **Terraform modules** to automate deployment of **Cloud Monitoring alert policies, dashboards, SLO definitions, log sinks**, and **custom metrics**, reducing onboarding effort by **60%** and ensuring consistency across environments.
* Spearheaded a fully modular **observability architecture** using **Cloud Monitoring**, **Cloud Logging**, **OpenTelemetry**, and **Error Reporting** in **GCP**, improving incident response and debugging capabilities for **microservices on GKE**.
* Automated infrastructure provisioning with **Terraform**, building modules for **GKE clusters**, **Pub/Sub**, **IAM policies**, and **log sinks**, while integrating module validations and approvals into **GitHub Actions**.
* Designed and implemented a **self-service observability provisioning system**, where app teams input metadata (application name, business owner, technical owner, services used), triggering **GitHub Actions pipelines** to dynamically generate **Grafana dashboards** using predefined templates.
* Built a streaming pipeline using **Pub/Sub** and **Cloud Functions**, transforming application logs into **BigQuery** tables and visualizing structured data through **Grafana**, enabling **real-time service monitoring** and historical trend analysis.
* Enabled **monitoring-as-code** for all **GKE workloads**, embedding observability requirements into Terraform modules, and enforced them through CI workflows to standardize monitoring from day one of deployment.
* Created **SLO-driven dashboards** and alerts per microservice based on SLIs like **latency, throughput, availability**, leading to faster RCA and higher service accountability.
* Designed and developed **Spring Boot**-based **RESTful APIs** aligned with **HL7 Da Vinci FHIR** standards for secure clinical data exchange, supporting healthcare interoperability use cases across Aetna’s digital platform.
* Led **Program Increment (PI) planning** sessions with cross-functional teams and **Product Owners**, driving **sprint prioritization**, **backlog grooming**, and milestone alignment across development and observability deliverables.
* Integrated **ServiceNow** with **Cloud Monitoring** using webhook notifications and metadata tagging, auto-generating incidents tied to deployment histories for traceable issue management.
* Developed serverless APIs using **FastAPI**, **Cloud Run**, and **Cloud Functions**, managing live scoring, feature ingestion, and post-deployment health checks in production systems.
* Used **Jenkins** and **GitHub Actions** to run automated **builds**, **Trivy scans**, and **deployment approvals**, tightly coupled with **JIRA** for ticket tracking and change audit.
* Managed daily job schedules and application monitoring pipelines using **Tidal**, **Airflow DAGs**, and **Cloud Scheduler**, ensuring all batch scoring and model retraining workflows were monitored and tracked.
* Implemented **Grafana dashboards** with dynamic templating, linking **BigQuery**, **GKE**, and **Cloud SQL** metrics for executive visibility and team-specific health reporting.
* Performed weekly optimization reviews with application owners to refine **alert thresholds**, log parsing patterns, and reduce **metric cardinality**, improving system reliability and cost efficiency.
* Created internal CLI tools using **Python**, **Click**, and **Bash** to automate access audits, log aggregation, and custom alert testing across teams.
* Configured **GitHub EMU-based automation** to dynamically generate **Grafana dashboards** for each **GCP service** using a centralized repo of dashboard-as-code templates and metadata extracted from registered applications.
* Built and triggered **GitHub Actions workflows** to parse **application metadata** (owner, tech stack, GCP services used) and auto-generate **Grafana JSON** dashboards, integrating the dashboards with observability infra through CI/CD pipelines.
* Extended the EMU dashboard automation to support conditional logic for services like Cloud Run, GKE, BigQuery, and Cloud Functions, enabling custom panel generation and tagging for cost and ownership tracking.
* Provided **production support** for critical jobs by monitoring **Airflow DAGs** and **Tidal schedules**, investigating job failures, reviewing logs, and coordinating with dev teams for resolution. Ensured timely reruns and status updates to avoid SLA breaches.
* Utilized **ServiceNow** to track and manage incidents, document root causes, and handle ticket escalations for failed jobs and platform issues. Worked closely with platform and infra teams to ensure stable operations and reduce recurring failures.

**Centene Corporation Tampa**

**Sr Software AI Engineer June 2023 – Sep 2024**

**Responsibilities:**

* Designed and deployed highly available infrastructure using core **AWS services (EC2, S3, VPC, RDS, IAM, CloudFormation, Route 53, CloudWatch, Lambda, EKS, ECS, ELB, SQS, SNS)** to support secure, multi-account enterprise deployments.
* Built fully automated **Infrastructure as Code (IaC)** pipelines using **Terraform** and **CloudFormation**, provisioning complete AWS environments with reusable modules for **VPC**, **subnets**, **security groups**, **IAM roles**, **RDS**, and autoscaling groups.
* Architected scalable **AWS EKS clusters** using **Helm**, **Kustomize**, node taints, pod security policies, workload identity integration, network isolation, and multi-tenant namespaces for production-grade container orchestration.
* Engineered advanced CI/CD pipelines using **GitLab CI/CD**, **AWS CodePipeline**, **Jenkins**, and **GitHub Actions**, integrating automated builds, container image promotion, rollback logic, policy gates, vulnerability scanning with **Trivy**, static code analysis via **SonarQube** and **Coverity**, and PR-based deployment approvals.
* Managed observability pipelines using **CloudWatch**, **Prometheus**, **Grafana**, **Fluent Bit**, and **OpenTelemetry**, building real-time dashboards for latency, error rates, memory leaks, resource utilization, and pod health across EKS clusters.
* Developed serverless orchestration workflows using **AWS Lambda**, **Step Functions**, **EventBridge**, and **SQS**, enabling asynchronous event-driven architectures for AI pipelines, data ingestion, batch processing, and microservice coordination.
* Implemented security automation using **AWS Security Hub**, **KMS**, **CloudTrail**, and **IAM Access Analyzer**, enforcing compliance with organizational security policies, role-based access control, and least privilege principles.
* Automated the full ML lifecycle on **SageMaker** using IaC templates, integrating model training, hyperparameter tuning, batch inference, model registry, endpoint deployment, and real-time inference monitoring via **CloudWatch Alarms**.
* Built AI feature processing pipelines using **Glue**, **Athena**, and **S3**, optimizing schema design, partitioning, data ingestion pipelines, and feature transformation for large-scale ML model input pipelines.
* Integrated live scoring AI inference APIs running on **EKS** and **ECS**, building scalable inference workloads and connecting real-time prediction outputs into **CloudWatch** dashboards with integrated drift detection and accuracy monitoring.
* Managed secure credential storage and rotation using **HashiCorp Vault**, eliminating hard-coded secrets from pipelines and containerized workloads, integrating dynamic secret injection into build pipelines and runtime deployments.
* Wrote complex automation scripts using **Python**, **Bash**, and **AWS CLI** to automate EC2 provisioning, IAM audits, EBS pruning, compliance audits, resource tagging validations, and cost optimization workflows.
* Led disaster recovery drills restoring full-stack infrastructure using **CloudFormation stack replays**, **S3 snapshot restores**, **EKS cluster re-provisioning**, validating full application recoverability under DR simulation conditions.
* Built fully automated monitoring alerting pipelines integrating **CloudWatch Alarms**, custom metrics, SNS notifications, ServiceNow incident triggers, and Slack real-time alert routing for proactive issue management.
* Supported multi-region AWS deployments using Route53 latency-based routing, cross-region replication strategies, Global Accelerator optimization, and high availability architecture design for global user traffic.
* Orchestrated production rollouts using blue/green deployments, canary releases, rollback protection strategies, and multi-environment tagging strategies integrated into GitOps workflows using **GitLab CI/CD** and **Helm upgrade hooks**.
* Integrated Databricks on AWS with **MLflow** tracking and **Delta Lake**, enabling version-controlled model lineage, reproducible experiment tracking, and real-time model governance for ML teams collaborating with data science stakeholders.
* Collaborated with application owners, security teams, and data scientists to design secure, observable, and compliant deployment architectures, aligning business SLAs, application dependencies, regulatory requirements, and resource optimization.
* Documented and published reusable **Terraform modules**, observability templates, RCA runbooks, tagging policies, secret management standards, and deployment playbooks to accelerate onboarding for platform engineering teams.
* Participated actively in Agile sprint planning, dependency mapping, cross-team coordination, RCA reviews, and production release reviews to ensure ongoing alignment between business goals, platform stability, and engineering velocity.

**USAA - Offshore Dallas, TX**

**Site Reliability Engineer March 2020 – Feb 2023**

**Responsibilities:**

* Architected end-to-end observability on **Azure Monitor**, **Log Analytics**, and **Application Insights**, providing unified metrics, distributed tracing, and logs across cloud-native and .NET-based applications.
* Defined and enforced platform-wide **Availability SLAs** using **Azure Service Health**, **Resource Health**, and **Azure Alerts**, improving MTTR and proactive fault detection through tailored alerting rules.
* Enabled resilient infrastructure using **Azure Load Balancer**, **Traffic Manager**, and **Availability Zones**, ensuring high availability and automatic failover for critical business services.
* Established incident response pipelines by integrating **Azure Alerts** with **PagerDuty** and **ServiceNow**, automating escalation workflows, root cause capture, and postmortem reporting.
* Managed production-grade **Azure Kubernetes Service (AKS)** clusters with **Horizontal Pod Autoscalers**, **Node Pools**, and **Pod Disruption Budgets**, enabling reliable scaling and deployments for .NET microservices.
* Containerized .NET Core APIs using **Docker**, built CI/CD pipelines with **Azure DevOps**, and deployed to AKS via **Helm** charts with integrated rollback, liveness probes, and startup probes.
* Led cleanup efforts across the **Azure environment** by identifying misconfigured **NSGs**, deprecated **firewall rules**, unused **DNS zones**, and outdated **VM images**. Automated remediation workflows via **Logic Apps** and **Event Grid** triggers, ensuring consistent **configuration compliance** and **security posture** across all **Azure subscriptions**.
* Packaged and deployed internal .NET-based desktop utilities using **InstallShield**, embedding signed MSI bundles within AWS-hosted S3-backed artifact stores. Integrated deployment triggers into Jenkins pipelines for Windows build artifacts.
* Integrated **Azure Key Vault** and **Azure AD Workload Identity** with AKS workloads to securely manage secrets and tokens without embedded credentials.
* Designed custom **Kusto (KQL)** queries to monitor AKS workloads and application health from **Azure Log Analytics**, enabling proactive scaling decisions and error analysis.
* Developed modular **Terraform** templates to provision **Azure Resource Groups**, **AKS**, **Virtual Networks**, and **Log Analytics Workspaces**, enabling infrastructure reusability and audit compliance.
* Integrated Terraform with **Azure DevOps Pipelines**, implementing plan, apply, and destroy stages with policy checks using **tflint**, terraform-docs, and OPA (Open Policy Agent) for governance.
* Led **Program Increment (PI) planning**, backlog grooming, and sprint reviews in coordination with Product Owners and application teams. Ensured delivery milestones were aligned across **Azure DevOps pipelines**, observability dashboards, and infrastructure tasks supporting large-scale .NET and Java workloads on **AKS**.
* Developed and tested Java-based microservices deployed on **Azure AKS**, writing unit and mock tests using **JUnit** and **Mockito** to ensure code quality and reduce production defects. Maintained over **90% code coverage** and integrated testing stages into CI pipelines using **Azure DevOps**.
* Designed and optimized **MSSQL Stored Procedures**, **Functions**, and **Views** for backend processing in **Azure SQL** databases, performing **query tuning**, **schema refactoring**, and **batch processing optimizations** to enhance system performance and reduce execution times across high-volume data workloads.
* Designed and maintained multi-stage **Azure DevOps Pipelines** for .NET applications, including build, test, and deployment stages with integrated approval gates and rollback strategies.
* Integrated static code analysis using **SonarQube**, security scanning via **WhiteSource Bolt**, and test coverage tools in CI stages to ensure quality and compliance before AKS deployment.
* Enabled seamless pipeline governance using **pipeline templates**, **variable groups**, and reusable YAML stages, supporting 10+ teams with consistent deployment standards.
* Wrote advanced **PowerShell scripts** for automating Azure VM provisioning, role assignments, and DNS updates across subscriptions using Azure CLI and REST API.
* Implemented enterprise-grade **vulnerability management** processes across **Azure VMs**, **AKS clusters**, and **PaaS services** by integrating **SonarQube**, **WhiteSource Bolt**, and OS-level **package vulnerability scans** into **Azure DevOps pipelines**. Automated patch validation using **PowerShell scripts**, ensuring continuous remediation of **CVE exposures**, compliance to **security baselines**, and proactive risk reduction across all environments.
* Automated incident remediation steps through PowerShell modules triggered by **Azure Logic Apps** and **Event Grid**, significantly reducing manual intervention time.
* Created PowerShell-based health checks to validate AKS node conditions, DNS records, SSL certificate expiries, and NSG rule violations in production environments.
* Collaborated with **architecture team** to review **hybrid connectivity** and **on-prem repatriation scenarios**, validating **Azure-to-on-prem workload dependencies**, **VPN configurations**, **identity federation** (**Azure AD**, **SAML 2.0**), and **DNS failover strategies** for workloads potentially transitioning back to on-prem infrastructure.
* Integrated **Splunk Universal Forwarders** on Windows and Linux workloads to stream logs from AKS, Azure VMs, and on-prem services into centralized log analysis pipelines.
* Created dashboards and correlation searches in **Splunk Enterprise Security (ES)** to track login anomalies, infrastructure spikes, and incident patterns across regions.
* Used **Grafana** with **Azure Data Explorer** and **Log Analytics** to visualize long-term trends and real-time service health, supporting monthly capacity planning and RCA reports.

**Maximus Inc - Offshore Reston, VA**

**Cloud Data Engineer**  **Jan v18 – March 2020**

**Responsibilities:**

* Built and maintained end-to-end data pipelines on **AWS**, orchestrating ingestion from on-premises and cloud sources into **S3** and **Redshift** using **AWS Data Pipeline**, **Glue**, and custom **Boto3/Python** scripts.
* Developed Spark-based ETL pipelines using **PySpark** to process structured and unstructured datasets from sources like Oracle, SQL Server, and CSV into **Redshift**. Implemented hashing and encryption logic for secure data processing.
* Worked with **Apache Airflow** to design DAGs for automating ETL workflows and managing dependencies across critical batch jobs, enabling SLA monitoring and retries.
* Utilized **AWS Lambda** for event-driven transformations and lightweight data cleanup, combined with **CloudWatch** for real-time error tracking, alerting, and job observability.
* Integrated **ERWin** and **MB MDR** tools for managing metadata, logical models, and physical schema generation, ensuring consistency across environments.
* Developed and managed RESTful **Python APIs** to trigger data extraction jobs, exposing endpoints for custom payloads, supporting revenue reporting and executive KPIs.
* Configured secure and optimized **Redshift** clusters, enabling workload isolation using WLM queues, distribution/sort keys, and materialized views to support fast analytical queries.
* Performed complex data modeling using **Star Schema** and **Snowflake Schema** to support both historical and ad hoc reporting in Redshift and external tools like Tableau and Power BI.
* Created reusable shell scripts and SQL loaders to automate data transfer from landing zones to staging layers, managing partitions and incremental logic.
* Created visual dashboards and ad hoc analytics using **Tableau** and **Power BI**, querying from Redshift, Athena, and flat files in S3, enabling data self-service for non-technical users.
* Integrated **HBase** and **Hive** (hosted on EMR) for real-time reporting and batch ETL operations. Used HiveQL for cleansing, joins, and aggregations.
* Designed high-throughput ingestion systems using **Kafka**, **Kinesis**, and **Data Streams**, enabling processing of streaming IoT sensor logs and transactional events in near-real time.
* Led POC on **Snowflake** and **Redshift Spectrum** for hybrid architecture, evaluating cost-performance trade-offs and building prototype models for cross-cloud analysis.
* Developed **SSIS packages** to migrate legacy SQL Server data into AWS ecosystem, performing transformations, validations, and integration into Redshift.
* Implemented logging and auditing frameworks using **S3**, **SNS**, and **CloudTrail**, improving traceability and compliance across production and non-prod environments.
* Automated deployments and pipeline versioning using **GitHub**, **CodePipeline**, and **CloudFormation**, ensuring reproducible infrastructure and artifact delivery.
* Used **EMR** with Spark for large-scale distributed joins, window functions, and aggregations on 500M+ records, optimizing with partitioning and broadcast joins.
* Built daily, weekly, and monthly data orchestration logic using **EventBridge**, **Step Functions**, and **Lambda**, orchestrating over 40 workflows with error retries and metadata tagging.
* Designed and tuned **Athena** queries for ad hoc analytics on semi-structured datasets, including Parquet, JSON, and ORC formats stored on S3.
* Collaborated closely with BI, data science, and business stakeholders to shape KPIs, transform business rules into pipelines, and support executive reporting with meaningful metrics.
* Designed and published advanced **Power BI** dashboards on top of curated Redshift datasets, enabling operations and finance teams to track performance metrics, perform ad hoc drill-downs, and export key insights for reporting.

**Huntington bank Columbus, OH**

**DevOps Engineer October 2016 – Dec 2017**

**Responsibilities:**

* Designed and implemented a scalable AWS architecture utilizing **EC2, S3, RDS, EBS, ELB, and Auto Scaling groups**, optimizing resources for improved performance and cost efficiency.
* Implemented **Micro-services** on AWS using Pivotal Cloud platform.
* Implemented a multi-layer security approach, integrating WAF, KMS, and IAM with custom Lambda functions for automated threat detection and response.
* Designed scalable and highly available Domain Name System (DNS) within AWS cloud to route traffic to AWS cloud from users connected using AWS Direct connect for larger Deployments.
* Created a centralized Docker registry using Amazon ECR, implementing vulnerability scanning and access controls to ensure container security and compliance.
* Implemented advanced networking solutions for EKS, including AWS VPC CNI customizations, Network Policies, and integration with AWS Transit Gateway for multi-cluster communication.
* Developed a Jenkins-based system for automated Docker image building and publishing to Amazon ECR, including image scanning and signing for enhanced security.
* Created a Dynatrace-based SLA monitoring system integrating custom metrics from various AWS services, automatically calculating compliance with contractual obligations and triggering alerts for potential violations.
* Professional in deploying and configuring Elasticsearch, Logstash, Kibana (ELK), and AWS Kinesis for log analytics and skilled in monitoring servers using Splunk, AWS CloudWatch, and ELK.
* Used Python scripts to update content in the database and manipulate files. Automated Email process, downloading and uploading the files through **Perl Scripting.**

**Gramercy Soft Tech Hyderabad, India**

**Build & Release Engineer April 2015 – October 2016**

**Responsibilities:**

* Installed and maintained **Linux and Windows** operating systems within the computer lab environment.
* Designed and implemented a scalable AWS architecture utilizing EC2, S3, RDS, EBS, ELB, and Auto Scaling groups, optimizing resources for improved performance and cost efficiency.
* Designed, implemented, and maintained CI/CD pipelines to automate build, test, and deployment processes for applications across multiple environments.
* Orchestrated release management workflows, including versioning, branching, tagging, and artifact management to ensure traceability and reproducibility.
* Providing on-going support and administration for GIT, and ANT build automation.
* Troubleshoot build issues in Jenkins, performance and generating metrics on master's performance along with jobs usage.
* Worked in all areas of Jenkins setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
* Developed and maintained **Python Scripts** to automate the routine administrative tasks such as system monitoring, log analysis, and backup processes within Linux environments.
* Developed **Shell and Perl** scripts to execute tasks outlined in YAML format, while utilizing Puppet for provisioning on development servers.

**EDUCATION**

* University of Indiana Wesleyan – IN, USA

Master of Science – Computer Science