**SAIPAVANTEJA**

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**ROFESSIONAL SUMMARY**

Sr **Platform Engineer** with **9** years of experience in DevOps practices and Data visualization. Proven expertise in

**CI/CD** pipelines, automation, security best practices, cloud computing (**AWS, PCF**), container management (**Docker, EKS**), infrastructure as code (**Terraform,** **Ansible**), and monitoring (Splunk, Grafana). Specialized in building secure, scalable CI/CD pipelines using Jenkins, GitHub Actions, and GitOps tools like Argo CD on Kubernetes. Adept at implementing DevSecOps practices and integrating security/compliance across the SDLC.

Cloud professional with extensive hands-on experience in Microsoft Azure services, specializing in cloud architecture, migration, automation, and security. Proven track record in designing scalable solutions, optimizing costs, and driving digital transformation initiatives for enterprise environments.

Successfully reduced deployment times by **77.5%** with automated **CI/CD** pipelines, migrated applications to Cloud for cost savings, and implemented proactive monitoring solutions for improved system uptime. Passionate about collaborating with teams to deliver exceptional results through innovative DevOps solutions.

Skilled in designing and deploying interactive data visualization by creating dashboards and reports to drive data-driven decisions. Expert in transforming raw data into actionable insights and ensuring data accuracy.

#   EXPERTISE SKILLS

**CI/CD:** Cruise Control, OSS Jenkins, Cloud Bees **Source Control:** GitHub, Subversion, AWS Code CI, AWS Code Build, Code Pipeline, GitOps, Commit.

 UrbanCodeDeploy, Argo CD, GitHub Actions. **Code Quality:** SonarQube.

**Automation:** Batch, Shell, Python, Groovy, **Coverage**: Clover, Jacoco, NCover Code Central, PowerShell,

Terraform scripts, HTML, CSS Open Cover, Istanbul.

**Cloud Computing:** AWS (EC2, S3, CloudWatch, **Security:** Snyk, BlackDuckHub, Security AppScan.

 IAM, etc.), PCF **IT Service Management:** Rally, Jira, Remedy,

**Containerization:** Docker, EKS, Helm Charts. ServiceNow

 **Infrastructure as Code:** Terraform, Ansible **Microsoft 365:** SharePoint Online, Teams, Power

**Monitoring:** Splunk, Grafana, Prometheus,

New relic, Datadog Apps, Power Automate, Power BI.

 **Data analytics**: Power BI, Tableau, ETL process, statical analysis plan, financial reporting, Data collection and analysis, Qlik.

 **WORK HISTORY**

 **Sr. Platform Engineer**

**Centene Corporation, USA (Remote)
Oct 2024 – Present**

* Designed and developed an **insights dashboard** to track key metrics such as build status, deployment frequency, environment availability, and code quality for project teams using CI/CD pipeline capabilities.
* **Proficient in Microsoft 365**, with hands-on experience in **SharePoint Online**, **Microsoft Teams**, **Power Apps**, and **Power Automate**.
* Configured and created Circle level SharePoint online web application, Site collections, sites, lists, document libraries, pages, views to collaborate.

Managed security for sites and lists by setting up permission and permission levels for different users and groups.

* Designed and developed a **Leave Approval Center** using Power Apps (both model-driven and canvas apps), applying business rules, and creating data connections for seamless functionality.
* Developed approval workflow and attached to document library to automate the approval process.
* Created Microsoft Teams and email notification workflows using Power Automate to improve team collaboration and communication.
* Automated infrastructure provisioning with ARM templates, Terraform, and Bicep.
* Configured Azure Monitor, Log Analytics, and Application Insights for proactive monitoring and alerting.
* Secured workloads using Azure Security Center, Key Vault, and Defender for Cloud.
* Designed and implemented Azure Storage solutions (Blob, Files, Disk, Queue, Table) with backup & replication.
* Worked on Hybrid Cloud environments integrating on-prem with Azure using Arc and AD Connect.
* Supported business continuity and disaster recovery (BCDR) strategies leveraging Azure Backup & Site Recovery.
* Automated infrastructure provisioning for AWS environments using **Terraform Enterprise**, significantly reducing manual configuration efforts, and improving deployment speed.
* Experienced in writing terraform modules to manage infrastructure components like **Lambdas, API Gateway, DynamoDB, SNS, CloudFront, IAM** and **S3 buckets**.
* Designed, deployed, and managed Azure IaaS & PaaS solutions including VMs, App Services, Functions, and AKS.
* Migrated on-premises workloads to Azure cloud using Azure Migrate and Site Recovery with minimal downtime.
* Implemented Azure DevOps CI/CD pipelines for automated builds, testing, and deployments.
* Managed Azure Active Directory (AAD) with RBAC, conditional access, and identity protection policies.
* Deployed and configured Azure Networking (VNets, NSGs, Load Balancers, VPN Gateway, ExpressRoute.
* Developed and maintained Terraform scripts to deploy resources in cloud environments, ensuring consistency and scalability across development, staging, and production environments.
* Integrated **Terraform Enterprise with CI/CD pipelines** to automate the deployment of infrastructure changes, improving deployment accuracy and reducing human errors.
* Built reusable Terraform modules to standardize infrastructure provisioning and improve team efficiency in managing cloud resources.
* Troubleshot and resolved issues related to Terraform plan, apply, and destroy commands, ensuring infrastructure deployment integrity.
* Optimized Terraform code for performance and efficiency, reducing resource wastage and improving cost management.
* Extensive experience in 24x7 on-call support, troubleshooting, debugging and root cause analysis.
* Ran Proof of concept on **Argo CD** includes installing, creating applications, sync applications, application health.
* Deployed and managed containerized applications in Kubernetes clusters on AWS, ensuring scalability, high availability, and optimized resource utilization.
* **I**ntegrated **Argo CD** with **Helm charts** to manage declarative application deployment and lifecycle management across multiple environments.
* Automated continuous deployment using **Argo CD** and **GitOps** principles, reducing deployment time and improving release cycle efficiency.
* **Monitored and troubleshot Kubernetes clusters** using **Grafana**, and **ELK stack** for centralized logging and application health tracking
* Collaborated with development teams to integrate DevOps best practices, increasing code deployment frequency by **60%** and reducing rollback rates by **15%**.
* Deployed GitOps with Argo CD on Kubernetes (EKS), integrating Helm for lifecycle management.
* Led a cross-functional team to implement a container orchestration platform, reducing deployment times by **40%** and improving system reliability by **30%** using Kubernetes and Helm.
* Optimized cloud infrastructure costs by **25%** through strategic use of ETL processes and Power BI for efficient data integration and reporting.
* Designed and deployed **interactive data visualization dashboards** for FinOps team that enhanced resource utilization and improved operational efficiency across teams.
* Designed and developed an **insights dashboard** to track key metrics such as build status, deployment frequency, environment availability, and code quality for project teams using CI/CD pipeline capabilities.
* **Proficient in Microsoft 365**, with hands-on experience in **SharePoint Online**, **Microsoft Teams**, **Power Apps**, and **Power Automate**.
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* **Monitored and troubleshot Kubernetes clusters** using **Grafana**, and **ELK stack** for centralized logging and application health tracking.

**Sr Platform engineer,** 12/2022- 09/2024

**TECHNOWIZ IT SOLUTUONS LIMITED** - Dublin, Ireland

**Responsibilities**:

* Implemented a robust **CI/CD** pipeline strategy that automated the deployment process, reducing deployment time from 8 hours to 15 minutes.
* Refactor monolithic applications to a Microservices and Component based architectures for **CI/CD** deployments.
* Good experience on AWS Cloud platform and its features which includes **EC2, API GATWAY, LAMBDA, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Auto scaling, CloudFront, IAM, S3**.
* Design and deploy multiple applications by utilizing the AWS stack (including EC2, S3, RDS, Dynamo DB, SNS, IAM, Lambda) and focusing on high-availability, fault tolerance, and auto-scaling using Terraform.
* Implemented Infrastructure automation through Terraform Templates **API GATWAY, LAMBDA, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Auto scaling, CloudFront, IAM, S3 buckets**, **policies** and on the Identity and Access Management (IAM) role-based policies and customizing the JSON template.
* Implemented and maintained the monitoring and alerting of production and corporate servers such as EC2 and storage such as S3 buckets using AWS Cloud Watch.
* Experience in automation AWS Cloud deployments, building and deploying application using UrbanCodeDeploy.
* Migrated **on-prem/PCF** applications to **AWS** cloud using automated tools in Jenkins with pipeline builds. Provide cost effective solutions in right sizing of using the cloud resources.
* Experience in configuring **Dynatrace**, **Splunk** monitoring tool for monitoring the server/app status, disk space issues, and log parsing.
* Integrated **OKTA** with **Cloud** and **on-prem** applications and protecting organization hybrid cloud Infrastructure.
* Imported all required **AD** groups into OKTA defining rules and manage user group membership via group rules.

Migrated more than 45 applications from CA SiteMinder to OKTA for SSO in one go with okta-SiteMinder coexistence mode.

* Working experience in setting up customer communications management (**CCM**) tools as Quadient Inspire Designer, Quadient Inspire Scaler, Quadient Inspire Content Manager, Quadient Inspire Interactive.
* Expertise in maintaining the Quadient Inspire platform, including performance tuning, monitoring, and alerting to ensure optimal system performance and reliability.
* Developed and implemented a migration roadmap for forms data using **ICM (Changeset/Package)** to ensure seamless transition between environments via a **CI/CD** pipeline.
* Led the planning and implementation of upgrades for the CCM tools (Quadient Inspire Designer, Scaler, Content Manager, Interactive) across all environments.
* Worked with different Bug Tracking Tools like **Remedy, JIRA** in tracking the issues, workflows, pulling reports from dashboard.
* Defining the strategy and road map for migrating from **Remedy** to **ServiceNow** platform.
* Design, develop and test solutions for internal Service Request and Items utilizing **ServiceNow** Service Catalog.
* Creating **ServiceNow reports** and **dashboards** for various Service Requests and Service Items.
* Excellent knowledge of ServiceNow Best Practices and ongoing knowledge of latest ServiceNow features
* Used **ServiceNow REST APIs** for automating Change and task creation during the approval phase of **CI/CD** pipeline process.
* **Deployed SonarQube on Kubernetes** using **Docker containers** for continuous code quality inspection and automated static code analysis, ensuring adherence to quality gates in CI/CD pipelines.
* **Deployed SonarQube on Kubernetes** using **Docker containers** for continuous code quality inspection and automated static code analysis, ensuring adherence to quality gates in CI/CD pipelines.
* Designed and implemented Kubernetes manifests (Deployment, Service, ConfigMap) to deploy SonarQube and PostgreSQL, achieving seamless integration for containerized SonarQube deployments.
* Integrated **SonarQube** with the Kubernetes ecosystem, ensuring high availability and fault tolerance through **replicas** and automatic restarts for SonarQube and database containers.
* Assessed the need of reporting Dashboards for CI/CD pipeline.
* Implemented a **Proof of Concept** (POC) for CI/CD pipeline dashboard reporting using **ETL Process** and **Power BI**, streamlining monitoring and decision-making processes across development and operations teams.
* Automated the collection of DevOps metrics using **REST APIs** to extract data from build and deployment tools, resulting in accurate, real-time visualizations and a **20% increase in deployment frequency**.
* Visualize build pipelines and deployments, with success/failure rates and time-to-deploy metrics.
* Help teams understand where issues are occurring in the build or deployment process.
* Used **Power BI Alerts** to notify stakeholders about important events or anomalies, such as a failed build or an incident that has been unresolved for too long.

**DevOps Engineer,** 09/2020 - 11/2022

**TECHNOWIZ IT SOLUTUONS LIMITED** - Dublin, Ireland

**Responsibilities:**

* Good understanding of the principles and best practices of Software Configuration Management (**SCM**) in scrum (Agile Methodology).
* Automating the build process by configuring Subversion for Java projects using Maven and tracking the build for defects in **JIRA**.
* Experience in configuring and deploying Java and J2EE applications into application servers (Rational Web sphere, Jboss and Apache Tomcat).
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Knowledge on continuous integration process using Jenkins and automating the build by deploying the source code.
* Responsible to perform Build operations with ANT Scripts, while implementing the required modifications in the ANT Script to perform build operations, in accordance with requirements of the project.
* Experience with migration of projects from **ANT to MAVEN**. Updated Maven build configurations and created integration pipelines with performance tests.
* Analyze and recommended enterprise Deployment tools like **Urban Code Deploy** and **XLDeploy**.
* Experience in setup of Urban Code Deploy (**UCD**) server and the agents within SDLM life cycle.
* Integration of Opensource Jenkins with Urban Code Deploy (**UCD**) for auto packing and auto deployments within Continuous integration process.

Participated in migration of deployment process from home ground tool into IBM UCD. Created **200+** applications and **500+** component in **UCD** using reusable application and component templates available with in **UCD**.

* Automation of new Jenkins job creation by implementing and managing Jenkins DSL setup.
* Early performance test suites Integrating into Continuous Integration process using Dynatrace.
* Coordinated with the Project Management, Development and QA Team in resolving any configuration and deployment issues, and to provide smooth release process.
* Understanding of Cloud Environment like **AWS**, **OpenShift**, **Azure**, Pivotal Cloud Foundry (**PCF**), Cloud Foundry (**OCF**).
* Setup and integration of Code coverage tools like **Clover**, **Jacoco**, **NCover Code Central**, **Open Cover**, **Istanbul** for .Net, JAVA and Node JS applications in the SDLM life cycle.
* Enabled Code coverage for 400+ Components within the project and Setup of SonarQube and Sonar Scanner for Code Quality analysis. Integrating SonarQube in the CI pipeline for code coverage reports and sonar metrics.
* Designed quality profiles and certain standards are set by installing Quality Gates in SonarQube dashboard and enforcing in the Jenkins jobs to set the build status to Unstable when thresholds are not met.
* Supported engineering plans and schedules by providing CM/Release Engineering services to build, deploy, develop scripts, oversee branch, and merge strategies, and build automated tools as necessary.
* Developed Jenkins shared libraries using Groovy and created technology (Java, .Net, Nodejs) specific Jenkins file templates. By using these templates, we created more than 1000+ pipelines across enterprise level.
* Designed and implemented branching and merging strategies for the GitHub repositories.
* Maintaining 1000+ projects in SonarQube, AppScan and Black Duck with various quality control standards.
* Worked on creating orgs, spaces, environments, user provided services and build packs management in PCF.
* Self Service capability for application project teams in providing access to different ORGs and SPACEs in PCF.
* Implement and manage continuous delivery systems and methodologies on PCF/PaaS.
* Implement Systems that are highly available, scalable, and self-healing on the PCF/PaaS platform.
* Engineering and integration of apps with Spring Cloud marketplace Services (Config Server, Eureka/Service Discovery, Service Registry, RabbitMQ) and User Provided.
* Integrated PCF Config server with GITHUB for managing application environment specific configuration YAML files.
* Expertise with using **PCF CLI** for Ops Manager and different activities within PCF.
* Involved in the installation and configuration of Nginx as a web server on PCF using Nginx build packs and Manifest YAMLs.
* Integrated Defect tracking tool JIRA with Confluence and Jenkins for defect/issues tracking and documented.
* Participated in SDLC and STLC process and used tools like **Selenium** RC/Web driver, **JMeter**, **SOAP** **UI**.
* Created automated test execution process for tests using Selenium WebDriver for Continuous regression testing (Jenkins &UDeploy) and reducing manual testing using Selenium, **TestNG** and **Maven**.
* Setup of scriptable Change ticket and task creation automation using **Remedy API** for **CI/CD** pipeline with AD group approval gating.
* Experience in DevOps essential skills like continuous integration, continuous delivery, continuous deployment, supporting Build Pipelines Release Management, configuration management (Infrastructure as a code) and cloud computing.
* Evaluated Amazon Web Services (**AWS**) environment and good knowledge of AWS services like Elastic Compute Cloud (**EC2**), Elastic Load-balancers, **S3**, Elastic Beanstalk, Cloud-Front, **RDS**, **Route53**, **Cloud-Watch**, CloudFormation, **IAM**.
* Staged, Installed, configured, Integrated and tested Splunk Enterprise logging systems, then deployed to data center (into both UNIX & Windows platforms).
* Created dashboards, alerts, reports, advance Splunk searches and visualizations in Splunk Enterprise.
* Designed solutions and concepts for data aggregation and visualization. Splunk deployment, configuration, and maintenance accurse a variety of UNIX and Windows platforms. Able to troubleshoot Splunk server problems and issues.

**Build and Release Engineer**, 01/2015 - 02/2019

**CIL INFO SERVE** – Hyderabad, INDIA

* Installed, Upgraded, and configured **Red Hat Linux 5.x** and **Windows Server 2003**.
* Installed latest patches for, Linux and Application servers, performed **Red Hat Linux** Kernel Tuning.
* Involved in creating new users, groups, and setup their home directories and appropriate access restrictions to software and directories & files.
* Implemented & maintained the branching and build/release strategies utilizing Team Foundation Server (**TFS**) in Windows environments.
* Maintained History of all the repositories using Team Foundation Server (**TFS**).
* Responsible for designing and deploying best SCM processes and procedures.
* Helped developers to resolve source code merging issues.
* Build and release software baselines, code merges, branch and label creation and interfaced between development and infrastructure.
* Good Quality release notes. Implemented sustainable branching models for organizations.
* Performed regular builds and deployment of the packages for testing in different Environments. • Created build and deployment scripts using windows **PowerShell v2.0** to automate the process.
* Created release notes for all the build.
* Following up with the Test Team & Development Team to resolve the build issue.
* Worked with the Quality Assurance team to develop processes that increase development and deployment efficiency, reduce defects, and exceed client quality expectations.
* Documented the policies and procedures for branching, labeling, code merging, check-in/checkout, and builds.
* Co-ordination with service managers, change mangers, development, and deployment teams.

Booking slots for production deployment and preparing the deployment schedule.

* Provided support by **24x7** shift rotation basis and pager support.
* Monitored trouble ticket queue to attend user and system calls, attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.

 **EDUCATION**

**Master of Science (MSc.):** Data analytics, 06/2020

**Dublin Business School, Dublin, Ireland**

**Key Areas:** Data Mining, Machine learning, Statistics, SQL, Python, Data Visualization and Database management systems

**Project - Twitter Sentiment Analysis on COVID using machine learning**

* Analyzed public sentiment regarding **COVID-19** by processing and classifying tweets as positive, negative, or neutral.
* Collected and pre-processed over **50000** tweets using **Twitter API**, focusing on relevant keywords and hashtags related to the pandemic.
* Cleaned and pre-processed text data using techniques like tokenization, stop-word removal, stemming, and lemmatization. Handled noisy data with emojis, slang, and special characters.
* Applied natural language processing (**NLP**) techniques such as TF-IDF vectorization and Word2Vec embeddings to represent tweet content numerically.
* Built classification models using algorithms like Logistic Regression, Random Forest, and Naive Bayes to predict sentiment. Fine-tuned model performance with hyperparameter optimization.
* Achieved an accuracy of **82%** and used confusion matrix and **F1** score to evaluate model performance.
* Created visualizations using Matplotlib and Seaborn to display sentiment distribution over time and across different regions. Analyzed shifts in public sentiment during major pandemic events.
* Delivered insights on public opinion trends and helped identify sentiment spikes corresponding to policy changes, lockdowns, and vaccine announcements.

  **CERTIFICATIONS**

* Hashi Corp Certified Terraform Associate.
* Certified in Microsoft PowerBI for Business Intelligence.
* Docker, Kubernetes, Terraform and Azure DevOps (Udemy).
* Harness Certified Continuous Delivery & GitOps Developer
* Harness Certified Continuous Integration Developer