

UDAY BUKKE

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Senior DevOps Engineer | AWS | Kubernetes (EKS & On-Prem) | Terraform | GitHub Actions | CI/CD Platform Engineering | DevSecOps | Observability

PROFESSIONAL SUMMARY

- **Senior DevOps / Site Reliability Engineer** with **8+ years of experience** building and operating **enterprise-scale CI/CD platforms, cloud infrastructure, and Kubernetes environments** across **AWS** and **hybrid cloud platforms**. Expertise in **AWS, Terraform, GitHub Enterprise, GitHub Actions, Docker, Kubernetes (EKS & On-Prem), Infrastructure as Code, DevSecOps, release automation, and platform engineering**.
- Proven track record of **reducing deployment times by 60%, improving MTTR by 35%**, achieving **99.9% platform availability**, and increasing **deployment reliability** through **GitHub Actions automation, progressive delivery strategies, observability engineering, and infrastructure standardization**.
- Hands-on experience implementing **Blue-Green Deployments, Canary Releases, automated rollback strategies, artifact promotion pipelines, secrets management, IAM governance, security scanning, SLO-driven monitoring**, and production-grade observability using **Prometheus, Grafana, Splunk, ELK, CloudWatch, and OpenTelemetry**.
- Strong background collaborating with **Architects, Developers, QA, Security, and Infrastructure teams** to build **highly available, scalable, and secure cloud-native platforms**.

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure, GCP
- **Build & Version Control:** Maven, Gradle, NPM, GitHub, Bitbucket, GitLab, SVN
- **AWS Services:** EC2, S3, Lambda, IAM, VPC, CloudWatch, Route 53, API Gateway, EventBridge, SNS, SQS, RDS, ACM, ECS, EKS, CloudFront, Elastic Beanstalk
- **Azure Services:** Azure DevOps, Azure Key Vault, Azure VMs, Azure Storage, Azure Monitor, Log Analytics, Microsoft Entra ID, AKS, ARM Templates, Bicep
- **GCP Services:** Compute Engine, GKE, Cloud Storage, Cloud IAM, VPC, Cloud Load Balancing, Cloud DNS, Cloud Functions, Pub/Sub, BigQuery
- **Containers & Kubernetes:** Kubernetes, EKS, AKS, GKE, OpenShift, Docker, Helm
- **Infrastructure as Code:** Terraform, CloudFormation, ARM Templates, Bicep, Ansible, Chef
- **CI/CD & DevOps:** GitHub Actions, Jenkins, Azure DevOps, Bamboo, Argo CD, GitLab CI, Bitbucket, AWS CodePipeline, AWS CodeDeploy
- **Observability:** Prometheus, Grafana, Dynatrace, Datadog, CloudWatch, Splunk, Nagios, AppDynamics, Elasticsearch, OpenSearch, Logstash, New Relic
- **Security & Governance:** IAM, RBAC, Microsoft Entra ID, Azure Key Vault, Okta, OAuth2, OIDC, SAML, IAM Policies, IAM Roles, Security Groups, Compliance Enforcement, Control Tower, Security Hub, CloudTrail, AWS Config, Inspector, GuardDuty
- **ETL & Analytics:** AWS Glue, Athena, QuickSight, Databricks, BigQuery
- **Databases & Caching:** PostgreSQL, MySQL, Oracle, MongoDB, Redis
- **Operating Systems:** Linux, Unix, Red Hat, CentOS, Windows Server
- **Scripting & Languages:** Python, Bash, PowerShell
- **Agile Methodologies & Tools:** Scrum, Kanban, Jira, Confluence, ServiceNow

PROFESSIONAL EXPERIENCE

Senior Cloud DevOps Engineer / Site Reliability Engineer

March 2023 - Present

Nike - Atlanta, GA

- Built **enterprise CI/CD platforms** using **GitHub Enterprise** and **GitHub Actions** with **reusable workflows, environment approvals, deployment automation, and self-hosted runners** supporting hundreds of **application deployments**.

- Implemented **progressive delivery strategies** including **Blue-Green Deployments**, **Canary Releases**, **Feature Flags**, **deployment health validation**, and **automated rollback mechanisms** to reduce **production deployment risk**.
- Designed **artifact versioning**, **promotion workflows**, **release traceability**, and **immutable deployment standards** using **GitHub Actions**, **Artifactory**, and **Kubernetes deployment pipelines**.
- Implemented centralized **secrets management** using **AWS Secrets Manager**, **HashiCorp Vault**, **Kubernetes Secrets**, and **IAM controls** to improve **security posture** and **credential governance**.
- Built **OpenTelemetry-based observability pipelines** integrated with **Prometheus**, **Grafana**, **Splunk**, **ELK**, **CloudWatch**, and **PagerDuty** for end-to-end **application and infrastructure monitoring**.
- Established **SLO-driven monitoring**, **deployment health validation**, and **incident response automation**, improving **service reliability** and reducing **operational noise**.
- Designed and supported **production cloud platforms** across **AWS**, **Azure**, and **GCP**, improving reliability, scalability, governance, and operational visibility for business-critical applications.
- Built and maintained **CI/CD pipelines** using **Jenkins**, **GitHub Actions**, **Azure DevOps**, **Bamboo**, and **Argo CD** to automate build, test, deployment, validation, and rollback workflows.
- Automated **infrastructure provisioning** using **Terraform**, **CloudFormation**, **ARM Templates**, and **Bicep**, reducing manual effort and improving environment consistency.
- Implemented **cloud governance automation** for tagging, cost control, access management, and policy enforcement, contributing to **25% cloud cost optimization**.
- Managed **Kubernetes deployments** across **EKS**, **AKS**, **GKE**, and **OpenShift** using **Helm**, **Argo CD**, **HPA**, **ingress controllers**, and **rollback strategies**.
- Built reusable **Helm charts** and deployment templates, helping engineering teams onboard microservices faster and maintain consistent configurations.
- Supported **24/7 production operations**, incident response, RCA, service restoration, and preventive remediation.
- Built **observability dashboards** using **CloudWatch**, **Azure Monitor**, **GCP Cloud Monitoring**, **Dynatrace**, **Prometheus**, and **Grafana** to track service health, SLI/SLOs, and MTTR.
- Improved **incident response** by configuring intelligent alerting, anomaly detection, service dependency mapping, and alert correlation, reducing **MTTR by 30%**.
- Applied **SRE practices** including SLIs, SLOs, SLAs, error budgets, capacity planning, and post-incident reviews.
- Integrated **SAST and DAST scanning** into CI/CD pipelines, reducing **application vulnerabilities by 40%** during early SDLC stages.
- Developed reusable **Terraform modules**, **CI/CD templates**, and **deployment standards**, enabling developer self-service and accelerating application onboarding across engineering teams.
- Collaborated with **Architecture**, **Security**, and **Application Engineering** teams to establish cloud governance, deployment standards, and platform engineering best practices.
- Implemented **GitOps workflows** using **Argo CD** and **Kubernetes**, improving deployment traceability, auditability, and release consistency across production environments.
- Strengthened Kubernetes security through **RBAC**, **Network Policies**, **Secrets Management**, and image scanning controls, improving compliance and reducing security risk.
- Implemented **secure access controls** using **AWS IAM**, **Microsoft Entra ID**, **GCP Cloud IAM**, **RBAC**, **Okta**, and **Azure Key Vault** to enforce least-privilege access and secrets management.
- Built **operational reporting** using **AWS Glue**, **Athena**, **QuickSight**, **BigQuery**, **Power BI**, and **Tableau** to improve platform health, reliability, and business visibility.
- Used **Python automation** and AI-assisted tools such as **GitHub Copilot**, **Cursor**, **Claude**, and **MCP servers** to improve pipeline development speed and reduce manual errors.

DevOps Engineer

Elevance Health - Atlanta, GA

October 2021 - February 2023

- Implemented **Blue-Green** and **Canary deployment strategies** using **Kubernetes**, **Argo CD**, **GitHub Actions**, and **automated rollback controls** to support **zero-downtime releases**.
- Automated **database schema versioning** and **release processes** using **Liquibase** for **Oracle** and **SQL Server environments**, improving **deployment consistency** and **rollback capabilities**.

- Developed **production data refresh pipelines** with **automated masking** and **anonymization of sensitive PII data** for **lower environments**, ensuring **compliance** and **secure testing practices**.
- Integrated **PagerDuty** with **observability platforms** to automate **incident routing**, **escalation policies**, and **deployment health monitoring**.
- Built and managed **CI/CD pipelines** using **Bitbucket**, **Bamboo**, **GitHub Actions**, **Azure DevOps**, **GitLab**, **Jenkins**, and **Argo CD** for **Kubernetes**, **OpenShift**, **EKS**, **AKS**, and **GKE-based applications**.
- Automated **cloud infrastructure provisioning** using **Terraform**, **CloudFormation**, and **ARM Templates**, reducing **deployment time by 60%** and improving configuration consistency across **AWS**, **Azure**, and **GCP** environments.
- Supported **hybrid and multi-cloud deployments** across **AWS**, **Microsoft Azure**, and **Google Cloud Platform (GCP)**, improving deployment reliability, release governance, and operational stability.
- Integrated **Snyk** and **SonarQube** into **CI/CD pipelines**, maintaining **95% code quality standards** and improving early-stage **vulnerability detection**.
- Designed **multi-stage deployment workflows** with **canary analysis**, **automated rollback**, **environment promotion**, and **release validation** to reduce production deployment risk.
- Implemented monitoring and observability using **Prometheus**, **Grafana**, **Splunk**, **Datadog**, **CloudWatch**, **Azure Monitor**, and **GCP Operations Suite**, achieving **99.9% uptime** and reducing **MTTR by 35%**.
- Built centralized **observability dashboards** for **application health**, **API performance**, and **infrastructure monitoring**.
- Integrated DevSecOps controls including **SAST**, **DAST**, **Snyk**, **SonarQube**, and policy validation into CI/CD pipelines, improving release security and reducing remediation effort.
- Implemented enterprise observability using **Dynatrace across cloud and on-prem infrastructure**, including APIs, middleware, and business-critical application platforms, improving visibility, proactive monitoring, and incident response efficiency.
- Defined and monitored **SLIs**, **SLOs**, and operational KPIs for critical services, improving reliability and proactive incident detection.
- Supported monitoring and reliability engineering for **WMS-integrated applications and hybrid on-prem/cloud environments** by designing Dynatrace dashboards, alerting strategies, and service health indicators to reduce downtime and improve operational stability.
- Standardized CI/CD onboarding processes and reusable deployment frameworks, reducing engineering effort and improving release consistency across teams.
- Improved **incident detection** and **root-cause analysis** using **logs**, **metrics**, **traces**, and proactive alerting.
- Supported **reliability engineering** through **monitoring standardization**, **service health tracking**, and operational reporting.
- Supported **AWS IAM**, **Azure Active Directory / Microsoft Entra ID**, **GCP Cloud IAM**, **RBAC**, **SSO**, **MFA**, **OAuth**, **OIDC**, **Okta**, and **secrets management** across cloud environments.
- Built **automation scripts** using **Python**, **Bash**, and **PowerShell** for self-healing infrastructure, DNS troubleshooting, TCP/IP checks, operational remediation, and error budget tracking.
- Managed **production deployments**, **change approvals**, **incident response**, **RCA**, **rollback procedures**, and **platform stability** across cloud and containerized environments.
- Integrated **JFrog Artifactory** with **CI/CD pipelines** to automate **artifact publishing**, **versioning**, **promotion**, and **release traceability**.
- Implemented **security and compliance controls** into deployment pipelines to enforce policy checks, vulnerability scanning, and secure release gates before production deployments.
- Managed **Azure Key Vault**, **RBAC**, and cloud secrets management practices to protect credentials and enforce secure access across application environments.

Cloud Engineer

IPsoft Global Services - Bangalore, India

January 2018 - February 2020

- Automated **CI/CD deployments** using **Jenkins**, reducing release cycles from weeks to days and increasing

deployment frequency by 300%.

- Created **Ansible playbooks** for **configuration management** across **100+ servers**, improving consistency, compliance, and operational reliability.
- Developed self-healing automation workflows using **Python, PowerShell, and Bash** to reduce operational overhead and improve service reliability
- Configured AWS CloudWatch, Azure Monitor, and GCP Cloud Monitoring alarms to monitor **CPU, memory, disk usage**, service health, and system availability across 50+ cloud instances.
- Automated **system administration and operational tasks** using **PowerShell and Bash**, including firewall rules, load balancer configuration, network access controls, and system updates.
- Implemented **OS hardening** for **Windows and Linux systems**, reducing vulnerability exposure across cloud and on-premises environments.
- Engineered robust OS hardening protocols for cloud and on-premises systems, ensuring compliance and mitigating over 50+ identified security risks
- Developed **Python automation** for vulnerability scanning, access control reporting, compliance checks, and operational workflows.
- Implemented centralized monitoring and alerting standards across **cloud** environments, improving visibility into infrastructure performance and service health.
- Supported **cloud infrastructure operations** across compute, storage, networking, monitoring, and access control services to improve platform stability and operational efficiency.

Build and Release Engineer

June 2016 - December 2017

Harman International - Bangalore, India

- Built automated **CI/CD pipelines** using **AWS CodePipeline, AWS CodeDeploy, Jenkins, Git, Maven, and Tomcat** for Java-based applications.
- Managed **AWS infrastructure** including **EC2, S3, ELB, Auto Scaling, and Security Groups** to support high availability deployments.
- Automated application release processes and **deployment validation** workflows, improving **release quality** and reducing deployment-related incidents.
- Automated **build, test, deployment, and release workflows** across multiple environments, improving release consistency and reducing manual deployment effort.
- Supported **AWS** infrastructure operations including compute, networking, load balancing, and monitoring services to maintain application availability and performance.
- Configured **Jenkins, Git, and Maven** integrations to automate application builds, package management, and deployments to Tomcat servers.
- Standardized **release management practices**, improving deployment reliability, release traceability, and release cycle time.
- Supported **build and release** operations for Java applications by coordinating source control, artifact generation, environment deployments, and production release readiness.

EDUCATION

Bachelor's Degree in Mohan Babu University

March 2012 – May 2016

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Certified AI Practitioner

Google Cloud Generative AI Engineer

Google Cloud DevOps Engineer