Bipin Sai Yadav Jala

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SUMMARY

Cloud and DevOps engineer with **4+ years of experience** delivering reliable infrastructure and deployment automation across banking, consulting, and digital engineering environments. Experienced in building cloud platforms on **AWS using Terraform, Kubernetes, Docker, and CI/CD pipelines with Jenkins, GitHub Actions, and GitLab** to support scalable applications. Developed monitoring and automation solutions using **Prometheus, Grafana, ELK, Python, and Bash** to improve system reliability and operational efficiency. Collaborates closely with developers, QA, and SRE teams to streamline releases, strengthen security controls, and maintain stable production environments.

SKILLS

Cloud Platforms & Services: AWS (EC2, VPC, RDS, S3, Lambda, SQS, API Gateway, Step Functions, ECS, Route 53, Transit Gateway, CloudTrail), Terraform, CloudFormation, CDK

Containerization & Orchestration: Kubernetes, Docker, Helm, ArgoCD, Karpenter

CI/CD & DevOps Tools: GitHub Actions, Jenkins, GitLab CI, Ansible

Infrastructure as Code & Automation: Terraform, Ansible, Python (Boto3, Paramiko), Bash, Kustomize, Karpenter

Monitoring, Logging & Observability: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), PagerDuty

APIs, Security & DevOps Practices: REST APIs, Open Policy Agent (OPA), Conftest, RBAC, IAM Best Practices, Event-Driven Architectures, CI/CD Automation, Infrastructure Automation, Blue-Green Deployments, Canary Releases, Incident Management, Root Cause Analysis

PROFESSIONAL EXPERIENCES

Cloud Engineer | PNC Financial Services, USA **Nov 2025 – Present**

- Built and scaled AWS-based Kubernetes platforms using Terraform, reducing environment provisioning time by 50% for digital banking systems.
- Designed CI/CD pipelines using GitHub Actions, Docker, and Helm, enabling consistent multi-environment deployments across microservices platforms.
- Implemented observability with Prometheus, Grafana, and CloudWatch, reducing production incidents by 35% through proactive monitoring.
- Automated compliance enforcement using Python and OPA, strengthening audit readiness in regulated financial environments.
- Developed event-driven architectures using Lambda, SQS, Step Functions, and API Gateway, improving transaction processing reliability and enabling secure service integrations.
- Reduced cloud costs by 22% using automated shutdown policies and cost optimization strategies.
- Enabled cluster autoscaling using Karpenter, improving resource efficiency and scaling performance.
- Implemented GitOps workflows with ArgoCD, improving deployment speed and rollback reliability.
- Designed containerized workloads using Amazon ECS for specific services, improving deployment flexibility alongside Kubernetes-based platforms.
- Configured Route 53 for DNS management and traffic routing, enabling high availability and failover across environments.
- Integrated AWS CloudTrail for auditing and monitoring API activity, strengthening security visibility and compliance.
- Architected secure network connectivity using AWS Transit Gateway, enabling scalable VPC communication across environments.

DevOps Engineer | Accenture Private Limited Solutions, India **Sep 2021 – Dec 2023**

- Optimized CI/CD pipelines using GitLab, Jenkins, and GitHub Actions with Docker and Kubernetes to automate builds and reduce average deployment cycles by 48%, eliminating manual handoffs.
- Automated cloud provisioning with Terraform and AWS CloudFormation, standardizing secure VPC, EC2, and RDS templates to shrink environment setup time from days to minutes and improve audit readiness.
- Implemented ArgoCD and Helm charts to execute blue/green and canary deployments, ensuring zero-downtime releases for trade ingestion and student enrollment platforms with safe rollbacks.
- Engineered observability using Prometheus, Grafana, ELK, and CloudWatch to detect anomalies and trends, enabling proactive fixes that reduced recurring incidents by 70% across monitored services.
- Authored Python and Bash automation scripts using Boto3 and Paramiko to validate data pipelines and manage AWS resources, significantly reducing manual reconciliation effort and improving processing throughput.
- Led incident response and postmortems with SRE and QA teams to resolve 30+ Sev-1/Sev-2 outages, driving root-cause fixes and process changes that lowered MTTR and operational risk.
- Integrated Kubeflow and MLflow on Kubernetes to productionize ML workflows, enabling collaborative model training and faster deployment of analytics solutions for credit risk initiatives.
- Enforced compliance by integrating OPA and Conftest policy checks into CI pipelines and automating RBAC configurations using Ansible, improving audit readiness and aligning deployments with organizational security standards.
- Cut cloud costs using AWS Cost Explorer and Lambda-based idle shutdowns, identifying waste and reducing monthly infrastructure spend by 25% without degrading availability.

- Implemented Helm chart standards and extended Helm values files to support multi-environment deployments, improving release consistency and reducing config drift across clusters.
- Managed Linux servers for CI/CD and production environments, performing patching, package management, systemd service management, user/group administration, and performance tuning to improve stability and uptime.
- Diagnosed and debugged complex shell scripts and cron jobs using bash tracing, set -x, log analysis, and strace, reducing script failures and deployment rollbacks.

Software Developer | Cybage Software, India **Apr 2020 – Jul 2021**

- Designed Java Spring Boot microservices to decompose a monolith, enabling independent deployments and reducing release cycle time by 32% for client-facing digital platforms.
- Built RESTful APIs with Node.js and Express to integrate third-party services, enhancing data synchronization accuracy and streamlining backend workflows for external service orchestration.
- Developed responsive React and TypeScript components to enhance user flows, optimizing perceived performance and simplifying maintenance through reusable component patterns.
- Analyzed ELK and Grafana traces to identify performance bottlenecks, implemented targeted fixes that increased API throughput by 40% during peak traffic.
- Validated CI/CD pipelines with Jenkins and Docker to ensure reliable builds, reducing failed deployments and rollback incidents by 60% across sprint releases.
- Automated application monitoring with Prometheus and PagerDuty to enable proactive incident detection, refining alert accuracy and support handoffs for faster remediation.
- Configured NGINX webserver and tuned upstream, SSL, and caching settings to improve response times and stabilize client connections under peak loads.

EDUCATION

Masters in computer information technology, Purdue University Northwest, IN **Dec 2025**

Bachelor in Electronics and Communications, MallaReddy College of Engineering and Technology, India **Jul 2021**

PROJECTS

End-to-End CI/CD Pipeline for PixelTune

GitHub Actions, Docker, Helm, Kubernetes

- Designed and implemented CI/CD pipelines with GitHub Actions to automate build, dependency installation, testing, and Docker image creation for a Vite web app, ensuring repeatable, consistent builds.
- Packaged Kubernetes manifests into Helm charts and deployed the containerized application to Kubernetes with automated release workflows, artifact management, and rollback-enabled Helm releases.

CERTIFICATION

Certified Kubernetes Administrator (CKA)