Dinesh Patra

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201 Windom Way,

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Senior Site Reliability and DevOps Engineer with extensive experience in designing, implementing, and optimizing CI/CD pipelines, cloud infrastructure, and micro-service containers using Kubernetes.

Certifications:
- AWS Certified Solutions Architect
- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Application Developer (CKAD)
- AWS Certified Cloud Practitioner
- AWS Certified SysOps Administrator
- ITIL Foundation
- VMware Certified Professional
- TSIA: Certified Service Professional - Level 1

Skills

Platforms: Linux (Redhat, Cent OS, Ubuntu, Amazon Linux)
Cloud Platforms: AWS (On-Premise , Hybrid), GCP (On-Premise, Hybrid), Multi-cloud
Containerization: Docker, Kubernetes, containerd, podman, docker-compose, Rancher
DevOps Tools: Ansible, Chef, Terraform, helm, artifactory, AWSCloudFormation
Scripting: bash, Python, Nodejs, Groovy
Monitoring Tools: NewRelic, AppDynamics, DataDog, Splunk, Prometheus
Version Control: Git, GitHub, GitLab, BitBucket/Stash
CI/CD Orchestration: Jenkins, GitHub Actions, GitLab CI/CD
Security Tools: kube-bench, CIS CATLite

Work Experience:

FIS Investments - Austin, TX - 06/2024 - 03/2025 - *Senior Devops Engineer*

- Development of GitHub Action Workflow Libraries:
    - Designed and implemented GitHub Actions to enable IssueOps workflows, allowing developers to self-service common tasks.
    - Developed reusable GitHub libraries for:
        - ➔ Linting to enforce code quality standards.
        - ➔ CxOne security scans to detect vulnerabilities early in the development cycle.
        - ➔ Automated repository creation via workflows, ensuring compliance with security standards.

- - Managed GitHub organizations, authentication, and authorization, ensuring proper access controls.
    - Standardized security and compliance checks within workflows to align with organizational policies

  - DORA Metrics Implementation
    - Utilized Harness to define and track DORA metrics (Deployment Frequency, Lead Time for Changes, Change Failure Rate, and Time to Restore).
    - Created custom dashboards to visualize team velocity and highlight critical insights for management.
    - Integrated Harness with CI/CD tools such as Jenkins to collect deployment and pipeline execution data.
    - Linked ticketing systems like JIRA to track development progress and correlate it with DORA metrics.
    - Integrated code repositories such as Bitbucket and GitHub to extract commit data and deployment insights.

Sony Interactive Entertainment – Austin, TX 05/2023 – 06/2024 *Senior Site Reliability Engineer*

- Orchestrating EKS Cluster Lifecycle
  - Strategically planned EKS cluster upgrades, ensuring minimal downtime and maximum efficiency during the process.
  - Maintained comprehensive documentation outlining lifecycle procedures for reference and knowledge sharing within the team.
- Automated AMI and Image Building:
  - Created CloudFormation templates for AMI and image creation, reducing manual intervention and ensuring standardized builds.
  - Established version-controlled repositories for templates, enabling easy tracking and modification for future improvements.
- Implementation of Add-ons using ArgoCD and GitOps:
  - Collaborated with cross-functional teams to identify and integrate essential add-ons, enhancing the cluster's capabilities.
  - Established a GitOps-based workflow with ArgoCD, promoting version-controlled, auditable, and automated deployment practices.
- Development of GitHub Action Workflow Libraries:
  - Engineered reusable GitHub Action workflow libraries for consistent CI/CD across various repositories.
  - Conducted training sessions to familiarize team members with standardized workflows, enabling wider adoption and efficiency.
- Dockerization and Deployment on ECS and EKS:
  - Architectured Dockerfiles optimizing the containerization process for Node.js applications.
  - Defined deployment strategies and scaling policies for ECS and EKS clusters, ensuring efficient resource utilization and high

availability.

Acxiom – Austin, TX 09/2019 – 05/2023 *Senior DevOps Engineer*
- Senior member of a team of engineers brought in to implement DevOps practices from the ground up within Acxiom to meet a requirement of 4 deployments per day
- Assessed current state and developed plan to implement efficient deployment process – automating tasks where able to mitigate manual error and add value.
  - o Architected and Implemented Jenkins pipelines across all environments to enable faster, high-quality releases.
  - o Implemented Kubernetes deployment projects using Ansible & jinja templating for consistent deployment across all environments.
- Developed strategy & infrastructure for Acxiom to support cloud agnostic approach for its customers o Architected and implemented infrastructure provisioning strategy for AWS and GCP infrastructure utilizing Terraform (Terraform Enterprise, Terraform Cloud), Terragrunt
- Executed release strategy for development organization (upwards of 100 people)
- Delivered custom automated solutions to meet specific customer needs.
- Provided on-call support for troubleshooting and proactively addressing production incidents. • Implemented and delivered AWS EKS fargate solution to reduce costs and simplified architecture (ansible, terraform, jinja, leastPrivileged Policies)
- Provided guidance for engineers as the senior member of the team
  - o Provided trained for engineers on DevOps best practices
  - o Hosted hack-a-thon
  - o Hosted multiple Lunch n' learns to push company initiatives

Pearson Inc. – Austin, TX 07/2014 – 09/2019 *Site Reliability Engineer*
- Hired to support Pearson moving applications from on-prem data centers to AWS multi-cloud • Started work on the application support team which then evolved into Site Reliability team o Brought on to move data center facing application to public cloud
  - o Implemented CI/CD deployments using Git, Jenkins, Ansible, Terraform, Terragrunt, and Packer on AWS Cloud infrastructure.
    - o Migrated Java-based applications from legacy data centers to AWS Cloud using various strategies. ▪ Lift & shift, Lift, Tinker & Shift, building cloud native solutions using micro-service architecture
      - ▪ Orchestrated Docker deployments and container management with Elastic Container Service. • Planned and executed production Go-Live plans
  - o Gathered requirements for go-live, evaluating risks, evaluating timelines, gathering stakeholder buy in, planning backup strategies, engaging testing teams for end-to-end pre-deployment tests • Resolved production incidents and triaged alerts.
    - o Developed automated alert system through self-healing process using shell & python scripts to improve incident resolution time
  - o Acted as on-call POC providing support during off-hours

• Delivered training on cutting-edge cloud technologies, assisted in development of new engineers, mentored new engineers

Hewlett Packard – Bangalore, Karnataka 01/2010 – 06/2014 *Solution Consultant*
- Installed and configured Weblogic, Tomcat, and JBoss Application Servers.
    - Managed Weblogic application server resources, including domains, managed servers, NodeManagers, JDBC DataSources, and JMS resources.
- Conducted hardware and capacity sizing for application servers.
- Performed load and performance testing for capacity planning.
- Integrated Apache Web Servers and F5 Load Balancers.
- Automated routine tasks using Shell, Perl, and WLST scripts.

Infosys Technologies Ltd. – Bangalore, Karnataka 07/2006 – 01/2010 *Software Engineer*
- Maintained Rackspace Linux servers by troubleshooting and resolving disk space and swap issues. • Set up iRules on F5 LoadBalancer for efficient application instance load balancing. • Established monitoring solutions using SiteScope, Nimbus, and AppDynamics. • Conducted a POC of AppDynamics monitoring solution in non-production and production environments.
- Provided on-call support during non-working hours.
- Documented architectural and maintenance procedures.
- Trained teams on middleware technologies.
- Planned and implemented production Go-Live.
- Participated in Incident, Change, and Problem Management.