**PREETHAM BYREDDY**

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**PROFESSIONAL SUMMARY**

Site Reliability / DevOps Engineer with 5+ years of experience in automation, infrastructure as code, and cloud-native systems. Skilled at designing and scaling distributed platforms on Kubernetes and AWS, building GitOps-driven CI/CD pipelines, and driving observability with Prometheus, Grafana, and OpenTelemetry. Hands-on with Linux systems, networking, and security practices. Certified Kubernetes Administrator (CKA) and AWS Solutions Architect – Associate. Looking to bring my automation-first mindset and strong open-source background to support global scale infrastructure.

**SKILLS**

* **Cloud:** AWS (EC2, RDS, S3, Lambda, CloudWatch), GCP (GKE, IAM, VPC)
* **Containers & Orchestration**: Kubernetes (EKS/GKE), Docker, Helm, Istio/Service Mesh, KEDA
* **Infrastructure as Code**: Terraform (modules, workspaces), Ansible, GitOps (Argo CD, Flux)
* **CI/CD & Automation**: GitHub Actions, Jenkins, GitLab CI, Canary/Blue-Green deployments, auto-rollbacks
* **Observability & Monitoring**: Prometheus, Grafana, Alertmanager, Datadog, OpenTelemetry, ELK, Loki
* **Distributed Systems**: Kafka, Redis, RabbitMQ, event-driven streaming pipelines
* **Linux & Networking**: Administering enterprise Linux servers, firewalls, routing, troubleshooting
* **Security & Reliability**: IAM, secrets management (AWS SM, Vault), incident response, DR/HA
* **Programming & Scripting**: Python, Bash, SQL, REST/gRPC APIs

**EDUCATION**

**Master of Science in Computer Science,** University of Central Missouri, Warrensburg, MO, USA

**CERTIFICATIONS**

**AWS Certified Developer**, Amazon Web Services (AWS)

**Certified Kubernetes Administrator,** The Linux Foundation

**PROFESSIONAL EXPERIENCE**

**Site Reliability Engineer -** *Stellantis, TX - Jul 2023 - Present*

* Migrated core workloads from VMs to Kubernetes (EKS) using Terraform and Helm; reduced deployment lead time by 70%.
* Designed SLOs, SLIs, and error budgets, integrating burn-rate alerts with Prometheus/Grafana.
* Built GitOps pipelines (GitHub Actions + Argo CD) with canary and automated rollback, reducing failed deployments by 60%.
* Implemented OpenTelemetry traces and Datadog dashboards, uncovering latency bottlenecks across microservices.
* Coordinated on-call rotations and incident workflows, cutting MTTR from 45 to 18 minutes.
* Led cloud cost optimization through autoscaling and spot instance adoption, saving 22% in compute spend.
* Built Terraform modules to standardize deployments across AWS and GCP, enabling hybrid cloud portability and reducing provisioning time by 50%.
* Optimized Kubernetes clusters for edge workloads (IoT data pipelines), leveraging KEDA for event-driven autoscaling.

**DevOps/Reliability Engineer**- *Freddie Mac, TX - Jan 2023 - Jul 2023*

* Automated infrastructure provisioning with Terraform modules and Ansible, improving consistency and recovery time.
* Built GitLab CI pipelines for containerized Java and Python services; accelerated deployment cycle by 40%.
* Standardized monitoring with Prometheus/Grafana and ELK stack; designed alerting rules for critical financial services.
* Improved disaster recovery processes using multi-region deployments and failover testing in AWS.
* Worked closely with developers to containerize monolithic apps into microservices, enabling smoother CI/CD workflows.
* Led incident response for P1/P2 outages, documented RCA and drove postmortem action items to prevent recurrence.
* Performed capacity planning and load testing for microservices; scaled clusters ahead of peak usage, reducing latency by 40%.
* Automated secrets rotation and IAM policy enforcement across CI/CD workflows, tightening security posture.
* Introduced postmortem culture with RCA templates, improving learning and reducing repeated incidents.
* Conducted capacity planning and cost forecasting for marketing analytics workloads, aligning infra spend with business goals.

**Cloud Engineer** - *Zeta Global, NY - Jan 2019 – Nov 2021*

* Engineered high-performance Java 8 backend services using Spring Boot 2.x for marketing analytics platform processing 500TB+ of customer data
* Deployed and managed cloud-native applications on AWS and Kubernetes, laying foundation for reliability practices.
* Built and maintained Jenkins pipelines for ETL, marketing analytics, and data warehouse processes.
* Automated configuration management with Ansible playbooks; reduced manual setup by 80%.
* Introduced Kafka and Redis for event-driven pipelines, increasing data ingestion throughput.
* Implemented ELK logging and custom Grafana dashboards for real-time analytics and system health visibility.
* Partnered with development and analytics teams to establish SLAs and monitoring for critical customer-facing services.
* Developed reusable Terraform modules with GitOps pipelines (ArgoCD) ensuring consistent and auditable infrastructure deployments.
* Created runbooks, onboarding guides, and playbooks; improved incident handoffs between SRE and development teams