NISHANT KAMAL

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Summary

Results-oriented Site Reliability Engineer with a proven track record of managing large-scale production environments. Committed to building exceptional products, solving complex problems, and continuously improving performance. Seeking to leverage expertise in Linux, monitoring, logging, and deployments, along with familiarity with container technologies, to contribute effectively to a forward-thinking DevOps team.

Skills and Tools

- **Cloud platforms**: AWS (EC2, S3, RDS, IAM, EKS, CloudWatch)
- **Containerization**: Docker, Kubernetes, Helm, CI/CD: GitHub Actions, FluxCD
- **Infrastructure as Code**: Terraform , GitOps
- **Monitoring and logging**: Prometheus, Grafana, New Relic, Loki
- **Messaging and streaming:** Kafka, Debezium
- **Version control**: Git,Scripting:Shell & Python, Yaml
- **Other tools:** Jira, Confluence, Istio service mesh

Experience

FarEye | Noida, India
Infra support Engineer
06/2020 - 05/2021

FarEye | Noida, India
Site Reliability Engineer
06/2021 - Current

- Implemented Karpenter for dynamic scaling, effectively replacing the Auto Scaling Group (ASG), optimizing resource utilization, and improving cost efficiency in the Kubernetes environment.
- Deployed Istio, Virtual Services, and Gateways to manage traffic routing and enhance microservices communication within Kubernetes clusters, streamlining service mesh configurations.
- Extensive hands-on experience with Helm Charts for automating application deployments, managing Kubernetes resources, and simplifying infrastructure-as-code processes.
- Leveraged AWS Technologies and AWS EKS to deploy scalable and highly available infrastructure, ensuring consistent application performance with integrated monitoring and alerting systems using Prometheus, New Relic, and Grafana for proactive issue resolution.
- Streamlined CI/CD pipelines by integrating FluxCD and GitHub Actions, enhancing automation and improving deployment cycles across teams.
- Troubleshoot production issues effectively, working closely with development teams to implement solutions that improved system uptime and minimized downtime.
- Deployed multiple microservices on Kubernetes, using Karpenter for autoscaling and improving resource efficiency, while ensuring seamless traffic management with Istio and Gateway services.
- Proactively identified performance bottlenecks, working on continuous improvements to system resilience and reliability.
- Strong communication and collaboration skills, demonstrated through effective teamwork in cross-functional environments.
- Conducted root-cause analyses after major incidents to identify areas for process improvement or technical enhancement opportunities.
- Enhanced system reliability by implementing monitoring tools and automation techniques.
- Implemented cost-saving measures by optimizing resource utilization across cloud-based infrastructure environments.

Education

Birla Institute of Technology And Science, Pilani
M.TECH in Cloud Computing
Expected in 05/2026

Vellore Institute of Technology | Vellore
B.TECH in Electrical and Electronics Engineering
04/2019

Awards

- **Customer Happiness Champion -**Jun 2025**-** For being The customer happiness champion for OND 2024 Quarter
- **Acers-Rising Star -**May 2024 – Recognized for emerging leadership and innovation in SRE practices at FarEye.
- **Captain Marvel -**Mar 2023 – Demonstrated the superpower of passion for customers during OND 2022.
- **Dark Knight -**Oct 2022 – Awarded for complex problem-solving during JAS 2022.
- **Dark Knight -**Jun 2022 – Recognized for technical excellence and RCA skills in Q1 2022.
- **Captain Marvel -**Oct 2020 – Acknowledged for customer-centric solutions in Q3 2020.

Projects

1. **Weather Forecast App – Kubernetes + GitOps Deployment**
   - ❖ Deployed a weather application on Kubernetes using Helm and FluxCD for GitOps-based CD.
   - ❖ Ensured high availability using HPA, Liveness/Readiness Probes, and ingress controllers.
   - ❖ Hosted infrastructure on AWS EKS, configured metrics with Prometheus and Grafana.
2. **AWS Cost Optimization via Karpenter Migration**
   - ❖ Replace inefficient AWS ASGs to reduce cloud spend and improve scalability for a microservices platform on EKS.
   - ❖ Designed Karpenter provisioning strategies, authored Helm charts for deployment, and created custom disruption budgets for graceful node termination.
   - ❖ Achieved a 35% reduction in EC2 costs by leveraging spot instances and efficient instance type selection, while improving application availability during scaling events.
3. **Alerting Standardization through Helm Chart**
   - ❖ Designed a company-wide Helm chart for alerts, eliminating 50+ disparate custom alert files and reducing mean time to resolution (MTTR) by improving alert clarity.