Gaurav Kaushal

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SUMMARY

DevOps Engineer with 4+ years of specialized experience in cloud infrastructure, Kubernetes, and CI/CD pipelines, and a total of 7+ years in technology. Proficient in deploying containerized applications using Helm charts on Kubernetes, automating infrastructure with Terraform, and optimizing cloud solutions on AWS. Experienced in transitioning from data analytics to DevOps, bringing a unique perspective on integrating automation with business processes.

TECHNICAL SKILLS:

- CI/CD & Automation: Jenkins, GitHub Actions, GitLab CI, ArgoCD, Terraform, Ansible
- Cloud Services: AWS (VPC, EC2, EKS, ECS, S3, CodePipeline, CodeBuild, CodeCommit)
- Containerization & Orchestration: Docker, Kubernetes (EKS), Helm Charts
- Infrastructure as Code: Terraform, YAML, Helm
- Scripting & Programming: Python, Bash, Go
- Monitoring & Observability Tools: Prometheus, Grafana, EFK Stack
- Database & ETL: SQL, ETL processes
- Operating Systems: Linux (Ubuntu, RHEL), Windows

PROFESSIONAL EXPERIENCE

Nlineaxis IT Solutions Private Limited   Jaipur, Rajasthan/India
Senior Data Analyst turned DevOps Engineer   *Dec 2018 – Present*

- **Infrastructure Automation:** Automated infrastructure provisioning and management using Terraform and Ansible, developing reusable modules for VPCs, EC2 instances, and security groups, reducing manual configurations by 40%.
- **CI/CD Pipeline Development:** Developed and optimized CI/CD pipelines using Jenkins, GitHub Actions, and Argo Rollouts, aligning with industry best practices for deployment automation.
- **AWS Optimization:** Architected and optimized AWS cloud environments, achieving a 20% reduction in cloud expenses through resource efficiency.
- **Containerization:** Deployed and managed containerized applications using Kubernetes (EKS) using helm charts and YAML manifests, streamlining resource allocation.
- **Monitoring & Logging:** Integrated Prometheus and Grafana for system monitoring, achieving 99.9% uptime. Enhanced centralized logging with the EFK stack.
- **Cross-functional Collaboration:** Collaborated with cross-functional teams to troubleshoot critical issues, improving deployment success rates by 25%.
- **Security:** Implemented security measures, including vulnerability assessments and secure configuration of AWS resources.

Locus R.A.G.S.   Jaipur, Rajasthan/India
Data Analyst   *Jan 2018 – Dec 2018*

- **Data Analysis & Visualization:** Processed large datasets (10K–1M records) using Tableau and Excel, delivering actionable insights to stakeholders.
- **Predictive Modeling:** Developed predictive models in Python and R, achieving up to 90% accuracy in forecasting sales and customer trends.
- **Client Collaboration:** Collaborated with clients to identify requirements and deliver data-driven solutions for business optimization.
- **Machine Learning Application:** Contributed to a machine learning-powered song recommendation system, increasing user engagement by 25%.

Key Achievements:
- Built dashboards tracking KPIs for 20+ stakeholders.
- Developed a churn prediction model that enhanced customer retention strategies.

Key Projects and Achievements:

1. **AWS Infrastructure and Kubernetes Management**

- Infrastructure Design: Architected AWS environments using Terraform modules to provision VPCs, subnets, and security groups. Migrated data storage to S3, reducing costs by 20%.
- Kubernetes Deployment: Set up and managed EKS clusters with YAML manifests for application deployment, optimizing resource allocation. Developed and modified Helm charts based on environment-specific requirements for application deployment.
- Networking & Security: Configured Ingress controllers, Load Balancers, and private hosted zones in Route 53 for secure microservice communication.
- Observability: Implemented Prometheus, Grafana, and the EFK stack for monitoring and log analysis, automating Elasticsearch snapshot management.

2. **CI/CD Pipeline Automation**

- Designed and maintained CI/CD pipelines integrating AWS CodePipeline, CodeBuild, and Jenkins, reducing deployment time by 30%.
- Enabled progressive delivery and rollback mechanisms using ArgoCD to enhance release stability and minimize deployment risks.

3. **Cost Optimization and Automation**

- Automated alert systems and incident response processes, reducing response times by 45%.
- Developed custom scripts for automated backups and log analysis, improving system reliability and reducing manual effort.

4. **Application Modernization and Migration**

- Migrated on-premises workloads to AWS, modernizing legacy applications for improved scalability.
- Optimized application deployments on Kubernetes, streamlining processes with manifest-based deployments.

Additional Contributions
- Developed a cost-effective ETL process for data ingestion, improving internal data accessibility and reducing data processing time by 30%.
- Automated alert systems for faster incident response, cutting response times by 45% and enhancing system reliability.

EDUCATION & OTHER

Poornima College of Engineering (B.Tech. - Computer Science)   *Feb 2020*
Certifications:
- **AWS Certified Solutions Architect – Associate**
- **AWS Certified Cloud Practitioner**

Professional Development
- Continuous learning through advanced courses on Adrian Cantrill's AWS resources, as well as AWS Skill Builder for deeper cloud proficiency.
- Enhanced troubleshooting skills through SadServers, focusing on production server issue management."