Mesfine G.

DevOps Cloud Engineer

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Professional Summary:

Experienced DevOps Engineer with over 6 years of expertise in cloud infrastructure automation, CI/CD, and database management, and software development methodologies. Skilled in AWS, Azure, Docker, Kubernetes, and Infrastructure as Code (IaC).

- Reduced deployment times by 30% through automation and streamlined CI/CD pipelines.
- Successfully migrated critical applications to AWS, achieving 99.9% uptime and improving scalability.
- Delivered secure, scalable, and cost-effective solutions, ensuring high system reliability and operational efficiency.
- Collaborative team player, with a proven ability to align technology solutions with business goals to drive continuous improvement.

Technical Skills:

- **Cloud Platforms**: AWS (EC2, S3, Lambda, RDS, VPC), Azure
- **DevOps Tools**: Jenkins, GitLab CI/CD, Docker, Kubernetes, Terraform, Azure DevOps
- **Containerization** & **Orchestration:** Docker, Kubernetes, AWS ECS, EKS
- **Infrastructure Automation**: Terraform, CloudFormation, AWS CodePipeline
- **Security** & **Compliance**: AWS IAM, AWS KMS, Encryption, RBAC
- **Database:** MySQL, PostgreSQL, MongoDB, DynamoDB
- **Monitoring & Reporting**: AWS CloudWatch, CloudTrail
- **Scripting**: SQL, Python, PowerShell, Bash
- **Operating Systems:** Linux, Windows Server, Mac OS

Work Experience:

Senior DevOps Cloud Engineer
Shiro Technologies LLC | Washington DC, USA | October 2022 – Present

- Led automation initiatives, reducing deployment times by 30% by implementing CI/CD pipelines using Jenkins and GitLab CI.
- Migrated mission-critical applications to AWS, improving scalability and ensuring 99.9% uptime.
- Optimized cloud infrastructure using Terraform and AWS CloudFormation, improving cost efficiency and resource utilization.
- Designed and implemented Docker containerization strategies and orchestrated containers with Kubernetes.
- Collaborated with cross-functional teams, applying agile methodologies (Scrum) to align DevOps practices with business objectives.

System Operations Administrator (SysOps)
PNC Bank | Washington DC, USA | Jun 2020 - Sep 2022

- Managed and optimized relational and NoSQL databases, ensuring high availability, peak performance, and robust security across diverse production environments.
- Developed and implemented comprehensive backup and recovery strategies, minimizing data loss risks and ensuring continuous business operations during system disruptions.
- Boosted database performance by thoroughly analyzing query execution plans, fine-tuning indexes, and optimizing schema structures, resulting in a 25% improvement in query response times.
- Automated database management processes using Infrastructure as Code (IaC) and configuration management tools, enhancing operational efficiency and reducing manual overhead.
- Led seamless database migration efforts, transitioning legacy systems to cloud platforms (AWS, Azure) while ensuring minimal downtime and maintaining data integrity.

Systems Administrator
Property Management Experts LLC | Arlington VA, USA | Oct 2018 - May 2020

- Managed and maintained IT infrastructure, ensuring optimal system performance, security, and availability for critical business applications and services.
- Implemented and supported monitoring tools to proactively detect and resolve system issues, minimizing downtime and ensuring seamless user experiences.
- Automated routine administrative tasks through scripting and configuration management tools, increasing efficiency and reducing manual intervention.
- Configured and managed servers, networks, and storage solutions, enhancing scalability, reliability, and disaster recovery capabilities.
- Collaborated with cross-functional teams to implement IT solutions that align with business needs, ensuring systems support evolving organizational goals.

Education:

- Postgraduate Program in Cloud Computing, University of Texas, Austin Texas (2024)
- Master of Science in Information Systems & Technology, Haramaya University (2018)

Certifications:

- AWS Certified Solutions Architect – Associate
- Microsoft Certified Azure Database Administrator – Associate
- MuleSoft Certified Developer – Level 1 (MCDL1)

Projects:

- **Automated Deployment Pipeline for Multi-Region AWS Infrastructure:** Designed and implemented an automated CI/CD pipeline for a multi-region AWS infrastructure, improving deployment speed by 40%. Utilized Terraform for infrastructure provisioning and Docker for containerizing microservices, orchestrated with Kubernetes. Followed Agile development practices and version control with GitLab.
- **Database Migration to AWS RDS:** Led the migration of a large-scale database from on-premise MySQL to AWS RDS, improving performance, reliability, and cost savings. Implemented backup, disaster recovery, and monitoring strategies for seamless operations. Used Test-Driven Development (TDD) to ensure the integrity of data migrations.
- **Auto Scaling with AWS:** Implemented Auto Scaling with AWS services like EC2 Auto Scaling, Elastic Load Balancer (ELB), and CloudWatch to automatically adjust resources in response to traffic fluctuations. This solution ensures high availability, peak performance, and cost-effectiveness by dynamically scaling instances up during high traffic and down during low demand, optimizing user experience while minimizing operational expenses.