

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.
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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
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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.
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Database Administrator (DBA)

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.