Mefine Ayelew
DevOps 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:

DevOps Engineer
PNC Bank | Washington DC, USA | June 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.

Database Engineer
Property Management Experts LLC | Arlington VA, USA | Dec 2020 – May 2022

- Automated infrastructure provisioning using Terraform, AWS, and Docker, reducing deployment times and minimizing manual intervention by 30%.
- Implemented and integrated monitoring solutions with Prometheus and Grafana, increasing system uptime by 20% and enabling proactive issue resolution.
- Automated CI/CD pipelines with development teams, improving deployment frequency by 25% and reducing errors, while applying Agile (Scrum) for efficient project delivery.
- Managed PostgreSQL and MySQL databases, ensuring data security, backups, and high availability.
- Implemented security best practices for cloud environments and CI/CD pipelines, ensuring compliance and data protection.

Systems Administrator
Walmart | Baltimore, USA | October 2018 – November 2020

- Managed server infrastructure (Linux & Windows) and ensured system stability, security, and patch management.
- Automated repetitive tasks with Python and Bash scripts, improving efficiency and reducing manual intervention.
- Coordinated with the network and security teams to deploy and manage firewalls and VPN solutions for secure remote access.
- Provided on-call support for incident management and system troubleshooting in an Agile environment, ensuring uptime and reliability during fast-paced infrastructure changes.

Education:

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

Certifications:

- AWS Certified Solutions Architect – Associate
- Microsoft Certified: Azure Database Administrator Associate
- Data Science with Python Programming

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.