

BINYAM SEYOUM

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Senior Platform Engineer

Innovative, growth-focused Senior Engineering leader with expertise in leading design, implementation, and management of large-scale cloud infrastructure projects across blockchain technology, bioengineering, artificial intelligence, open-source development, solar energy systems, and media streaming platform industries.

Skilled in automating processes, ensuring high availability, and optimising system performance. Adept at implementing security best practices and monitoring systems for continuous improvement. Strong background in troubleshooting, resolving technical issues, and providing scalable solutions. Demonstrated ability to lead cross-functional teams to drive project success. Proven track record of delivering high-quality work within deadlines and budgets. Exceptional communicator with the ability to convey complex technical information effectively to diverse stakeholders.

CORE PROFICIENCIES

Technical Skills:	Kubernetes Google Cloud Platform (GCP) Amazon Web Services (AWS) Cloudflare Terraform GitHub GitLab Bitbucket Docker Docker Compose Nginx Istio Anthos Datadog, Prometheus Python Bash Jenkins Drone CI GitHub Actions ArgoCD Rancher K3s Kubeadm RKE Helm
Competencies:	Cloud Solutions Infrastructure as Code (IaC) Platform Provisioning Cloud Deployment WebOps DevOps SRE Project Management Sprint & Project Planning Privacy & Security Compliance Technology Roadmaps CI/CD Pipelines System Reliability Engineering API Management Continuous Process Improvement On-prem Kubernetes Cluster High Availability & Fault Tolerance Agile Methodologies Team Leadership & Development Stakeholder Engagement

PROFESSIONAL EXPERIENCE

G&L Systemhaus (Multi-Media Company), Germany (Remote) DevOps /Platform Lead	2024 to Present
Direct development and management of CI/CD pipelines with the ArgoCD GitOps model to streamline deployment tasks and increase operational performance. Manage EKS environments with Grafana, Prometheus, and Alert Manager Operator to facilitate proactive identification of issues and minimising system downtimes. Employ Cortex to capture cluster metrics, centralising notifications and surveillance to improve system monitoring and responsiveness.	
<ul style="list-style-type: none">Achieved faster deployment times and reduced manual effort by automating infrastructure management via Terraform and CloudFormation.Contributed to greater consistency and improved team collaboration by developing a local development environment with Docker and Docker Compose.Delivered high availability for mission-critical systems by deploying cloud-native infrastructure using AWS services.Prevented unauthorised access to resources by implementing Security Groups and network ACLs to protect resources.Improved scalability and reliability by implementing serverless infrastructure with AWS services, including Route53, VPCs, Transit Gateways, CloudWAN, and Direct Connect.	
Massless.io (Blockchain), UK (Remote) Senior DevOps Engineer	2022 to 2024
Developed and implemented NFT platforms on Google Cloud Platform (GCP), leveraging Google Kubernetes Engine (GKE) to facilitate scalable and self-repairing web frontend solutions. Supported consistent and efficient infrastructure provisioning by employing Terraform for Infrastructure as Code (IaC).	

- Increased delivery speed and reliability by configuring GitLab CI/CD pipelines for automated testing and deployment.
- Identified and mitigated vulnerabilities in containerised applications by designing Docker image scanning tools.
- Improved system reliability and performance tracking by deploying monitoring solutions using Prometheus and Grafana.

MOSIP (Open-source ID Systems), Remote

2021 to 2023

Lead DevOps Engineer

Managed the development and implementation of CI/CD pipelines, automating critical stages like software build, testing, and deployment to streamline release processes. Developed and deployed identity systems within on-premises Kubernetes setups to maintain secure and efficient service delivery.

- Enhanced system performance by designing scalable, fault-tolerant infrastructure with automated provisioning and traffic-based scaling.
- Increased system observability by setting up centralised log management and integrating advanced monitoring tools.
- Boosted scalability and operational effectiveness by overseeing containerisation strategies and managing the deployment of applications on Kubernetes.

MARA.xyz (Blockchain), UK (Remote)

2022 to 2023

Senior DevOps Engineer

Led cross-functional teams in designing and implementing automated CI/CD pipelines to streamline and optimise blockchain application deployments. Created monitoring tools to proactively manage the reliability and efficiency of blockchain node infrastructure.

- Maintained zero-incident track record through strategic partnerships with security teams and rigorous adherence to industry-leading security practices.
- Played a key role in propelling MARA to the forefront of African blockchain innovation, enhancing regional and global presence.
- Delivered high-performing, scalable blockchain solutions by architecting an event-driven, serverless Layer 2 infrastructure on AWS with Lambda, ECS, Fargate, and Aurora.

Nebula.io (AI System), USA (Remote)

2020 to 2022

Senior DevOps Engineer

Oversaw the creation of a continuous integration and continuous deployment pipeline to increase software delivery speed and maintain consistency. Administered advanced AWS environments, incorporating AD, VPC peering, VPN, Transit Gateways, and Route53 to support efficient infrastructure integration and communication. Configured and managed a centralised log management system to increase system visibility and simplify issue resolution.

- Enhanced system reliability and minimised service interruptions by identifying and addressing issues in the production environment.
- Reduced setup time and ensured consistency by developing automation scripts to provision and configure new environments.
- Improved efficiency by automating the software release cycles, minimising manual intervention, and streamlining build, testing, and deployment workflows.
- Enhanced scalability and resource efficiency by driving the containerisation of applications and their deployment to EKS.
- Strengthened alignment between development and production environments, utilising local setups with Minikube, Docker, and Docker Compose.
- Enabled performance monitoring and issue detection by deploying solutions that gathered metrics and log data from the application.
- Boosted system visibility and facilitated proactive problem-solving by deploying a strong monitoring and logging framework.
- Delivered high availability and system resilience by creating a scalable and fault-tolerant architecture for key systems.
- Optimised software release efficiency and timeliness while minimising disruptions by establishing and executing a release management process.

FpComplete, USA (Remote)**2019 to 2020****Senior DevOps Engineer**

Managed cloud infrastructure provisioning and scaling, maintaining optimal performance, security, and cost-efficiency across all systems. Developed and implemented automation tools and processes for continuous integration and deployment to enhance efficiency and reduce manual intervention.

- Boosted build efficiency by 30% and improved development cycle times by leading the implementation of a new build pipeline.
- Increased productivity by 15% and enhanced team collaboration by designing and executing streamlined workflows.
- Decreased downtime by 20% and enhanced system reliability by deploying a comprehensive monitoring system.
- Improved deployment speed by 40% through automation, automating the process to facilitate quicker feature releases.

d.light Design Inc., USA (Remote)**2016 to 2019****Lead Cloud Architect**

Spearheaded a team of cloud architects in delivering a cloud solution for a prominent off-grid power provider to improve infrastructure capabilities. Oversaw the development of a flexible cloud infrastructure capable of future scalability.

- Increased productivity by 30% and improved workflow efficiency by designing and overseeing the development of a cloud-based solution.
- Maintained compliance with industry standards and safeguarded sensitive data by establishing and enforcing cloud security protocols.
- Enhanced system efficiency and reduced operational expenses by implementing innovative strategies to boost cloud performance.
- Secured approval for key technological advancements by delivering a cloud-based solution proposal to the board of directors of a prominent retailer.

Gebeya Inc., USA (Remote)**2013 to 2016****DevOps Engineer & Trainer**

Collaborated with development and operations teams to optimise processes, focusing on increasing efficiency across workflows. Developed and delivered training on DevOps practices and tools to improve team expertise and promote best practices.

- Enhanced service quality and reduced downtime by implementing automation and monitoring systems.
- Increased efficiency and eliminated bottlenecks by identifying areas for optimisation within the software development cycle.
- Improved release efficiency by reducing delays and fostering better coordination, while resolving development and delivery issues to enhance the process.
- Boosted productivity and fostered ongoing development by guiding developers in the use of new tools and technologies.
- Decreased onboarding time and enhanced team integration by designing and delivering a comprehensive DevOps training programme for new hires.

EDUCATION & CREDENTIALS

MSc, Computer Science | HiLCoE School of Computer Science