

## JORGE BAYUELO

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[LinkedIn](#) | [Portfolio](#) | [My Blog](#) | [GitHub](#)

I am a **results-oriented** and **security-focused DevOps Engineer** with hands-on experience designing, automating, and deploying scalable infrastructure on **AWS** using **Terraform, Docker, Kubernetes** and **CI/CD pipelines**. Proven ability to build and manage secure, cloud-native deployments while applying Infrastructure as Code (IaC), containerization, and monitoring best practices. Strong background in **Linux system administration**, automation scripting, and cloud observability.

### TECHNICAL SKILLS

- Cloud & Infrastructure: AWS, EC2, S3, IAM, RDS, DynamoDB, CloudWatch, Terraform, CloudFormation
- DevOps & Automation: CI/CD, GitHub Actions
- Containerization & Orchestration: Docker, Kubernetes
- Development & Scripting: Bash Scripting, Python, GitHub (Version Control)
- Systems & Networking: Linux Administration (Ubuntu, RHEL, CentOS, Fedora), NGINX, Firewalls, VPN, System configuration and network security
- Monitoring & Observability: Prometheus, Grafana
- Certifications: AWS Certified Cloud Practitioner, CompTIA A+

### PROFESSIONAL EXPERIENCE

ICF Sep 2023 – Present  
**DevOps Engineer**

- Architected and managed 100+ AWS resources (EC2, S3, IAM, RDS, DynamoDB, CloudWatch) using Terraform and CloudFormation, achieving 99.9% uptime while reducing infrastructure provisioning time by 80% and optimizing costs by 25% across 15+ environments.
- Built and maintained 25+ automated CI/CD pipelines using Jenkins and GitHub Actions, containerized 40+ applications with Docker and Kubernetes, reducing deployment failures by 90% and improving resource utilization by 60% across production clusters.
- Developed 50+ automation scripts in Bash and Python, implemented Ansible configuration management for 200+ servers, eliminating configuration drift and reducing manual intervention by 75% while maintaining 100% security compliance.

SYNERGY TECH CONSULTING, LLC Jul 2021 – Aug 2023  
**DevOps Engineer**

- Designed and deployed AWS infrastructure using Terraform, provisioning EC2 instances and securing cloud resources, leading to a 25% improvement in deployment speed and reduced cloud costs.
- Containerized 20+ applications using Docker and managed Kubernetes clusters with 100+ pods, improving resource utilization by 45% and reducing application startup time by 60%.
- Integrated 8+ DevOps tools creating seamless workflows for 15+ development teams, improving deployment success rate by 80% and reducing cross-team collaboration time by 40%.

ITTIQ Mar 2019 – Jun 2021  
**System Administrator**

- Administered 50+ Linux/Unix servers and managed user accounts for 200+ users, maintaining 99.5% system uptime and reducing security incidents by 40% through proactive monitoring and access control implementation.

- Developed 15+ automation scripts using Bash and Python that streamlined routine administrative tasks, reducing manual workload by 60% and decreasing system maintenance time from 20 hours to 8 hours per week.
- Maintained standardized configurations across 30+ servers and implemented change management procedures that reduced configuration drift by 80% and decreased deployment-related incidents by 45%.

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## PROJECTS

### SECURE AND AUTOMATED CI/CD DEPLOYMENT OF A REACT APP WITH SECRETS MANAGEMENT ON AWS

- Developed a secure CI/CD pipeline using GitHub Actions, Docker, and AWS EC2 to deploy a React-based application.
- Managed sensitive credentials via GitHub Encrypted Secrets, and Secrets Management on AWS, improving overall pipeline security.
- Integrated Terraform for automated EC2 provisioning and infrastructure as code consistency.

### CLOUD-NATIVE CI/CD DEPLOYMENT PIPELINE FOR REACT APP ON AWS

- Designed and deployed an end-to-end CI/CD pipeline with GitHub Actions, Docker, and AWS EC2.
- Automated infrastructure provisioning and app deployment using shell scripting and Docker Hub.
- Configured NGINX for secure reverse proxy and integrated CloudWatch for observability.

### AUTOMATED AWS INFRASTRUCTURE WITH TERRAFORM

- Deployed scalable AWS infrastructure using Terraform with remote backend and state locking.
- Secured network access using custom Security Groups and followed AWS best practices.
- Automated full teardown with terraform destroy, optimizing cost and resource use.

### VIRTUAL NETWORK SETUP USING VMWARE WORKSTATION & FEDORA 41

- Created a simulated enterprise environment using Linux Vms, configuring DHCP, DNS, and firewalls.
- Tested and enforced access controls and security policies in a virtual lab.
- Strengthened Linux administration and troubleshooting skills in a controlled network setup.

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## EDUCATION

**Comfenalco Technological University Foundation** – Systems Engineering Technology

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## PROFESSIONAL DEVELOPMENT

- AWS Cloud & DevOps Technologies – **KodeKloud**
- Jenkins, Docker, Terraform, Shell Scripting – **KodeKloud**
- Git & GitHub for Version Control – **Udemy**