

Arerepade Louis Benagha

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EDUCATION & CERTIFICATION

Constanta Maritime University, Romania

June 2018

- *Bachelors in Engineering*
 - *Electromechanical engineering*
- HashiCorp Certified: Terraform Associate (003)

3+ years of experience in **platform engineering** and **DevOps**, managing **cloud infrastructure** and automation to support scalable environments.

PROFESSIONAL EXPERIENCE

Tandem Diabetes Care, CA

August 2022

Cloud Infrastructure Engineer

- Developed and maintained **Terraform** modules for provisioning **Azure** services, ensuring efficient and scalable cloud infrastructure, which reduced deployment time by 70%.
- Developed and Enhanced **CI/CD** pipelines by implementing **GitHub Actions** reusable workflows, improving deployment speed by 50% and error reduction.
- Integrated **WIZ** into **IaC** pipelines for static code scanning, automating vulnerability detection and security compliance checks, leading to a 40% reduction in security incidents.
- Worked with the **DevOps** team to design and deploy a **pump uploader web UI**, using **Docker** and **Kubernetes** for scalable and efficient application containerization.
- Developed **Go-based** automated scripts to test and monitor the health and performance of critical APIs in a diabetes management **SaaS** platform, including the Patient Data API, Medication Tracking API, and Appointment Scheduling API.

Bain & Company, TX

Apr. 2021 – Apr.
2024

Platform Infrastructure Engineer

- Provisioned and maintained **AWS** and **GCP** services using **Terraform** modules, optimizing cloud infrastructure for scalability and efficiency, leading to a 70% reduction in deployment time.
- Used **Ansible** for configuration management of **servers**, standardizing system setup, and patching.
- Implemented **Datadog** for continuous monitoring of CPU usage, memory utilization, and application response times, improving visibility into system health and enabling faster incident resolution.
- Implemented event-driven **Python3.x AWS Lambda** functions integrated with **CloudWatch** to monitor EC2 instance states, EBS volumes, and RDS statuses.
- Architected a robust network layout for SaaS applications leveraging **Azure Virtual WAN**, ensuring stringent firewall rule enforcement and selective host endpoint access, resulting in a 30% improvement in network security and a 20% reduction in latency.
- Automated **server** deployment processes using scripting tools, reducing setup time by 30%.
- Managed **HashiCorp Vault** and **Consul** to ensure secure secret management across cloud instances and **on-premises** data centers.

Fare Now, TX

May 2020 – Apr.
2021

AWS Cloud Engineer Intern

- Worked with senior cloud engineers to design and implement a 3-tier AWS architecture with **EC2**, **VPC**, and **Auto Scaling**.
- Automated infrastructure provisioning with **Terraform** and managed **CI/CD** pipelines using **Jenkins**.
- Developed **Python** scripts for **IAM** user credential rotation and integrated logging with **AWS CloudWatch**.
- Created **Bash** scripts to automate **WordPress** installation and multi-AZ deployment across EC2 instances.

Bereans IT, TX

Jun 2019 - May
2020

Oracle Database Administrator Intern

- Conducted Oracle Data Dump imports/exports and managed nightly RMAN backups for disaster recovery planning.
- Utilized Opatch for database patching, ensuring compatibility and rollback strategies.
- Implemented Oracle Goldengate for real-time database replication and ensured high availability with Oracle RAC.
- Provided database support to ensure 99.99% availability and reliability for client environments.

PROJECTS & EXTRACURRICULAR

Leadership experience

Sep – Nov 2024

- Supervised and mentored an intern for 3 months at Tandem Diabetes Care, guiding her through key infrastructure projects and security initiatives to enhance her skills and contributions.

SKILLS

Python, Go, Bash, Jenkins, GitHub Actions, Ansible, Terraform, Amazon Web Services, Microsoft Azure, Google Cloud, Docker, Kubernetes, Database, Network