DevOps Engineer

Roberto C. Vazquez

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# Professional Summary

DevOps Engineer with a B.Sc. in Computer Science and three years of experience managing web and network environments on Linux. Passionate about automating deployments on AWS using Terraform, Ansible, Kubernetes, and Jenkins, aiming to optimize processes and ensure high availability.

# Technical Skills

* **Infrastructure as Code:** Terraform, Ansible, Vagrant, AWS CloudFormation.
* **Cloud & Automation:** AWS (EC2, ELB, S3, IAM, VPC, RDS), AWS CLI, Jenkins, GitHub Actions.
* **Containers & Orchestration:** Docker, Kubernetes.
* **Monitoring & Logging:** CloudWatch, Prometheus.
* **Operating Systems & Networking:** Linux (Ubuntu, Amazon Linux), Bash, SSH, DNS/DHCP, systemd.
* **Programming & Tools:** Java, Python, SQL, YAML, JSON, HTML/CSS, Visual Studio Code, Postman.
* **AI & Productivity:** ChatGPT, GitHub Copilot, Notion AI.

# Professional Experience

**Cloud & DevOps Engineer ,** Self-Initiated, 2025

* **Re-architected a monolithic web application** using AWS managed services (Elastic Beanstalk, RDS, ElastiCache, MQ), improving scalability and deployment speed.
* Built and deployed a **CI/CD pipeline** with Jenkins, integrating GitHub, Maven, SonarQube, and Nexus for automated builds, testing, static analysis, and artifact publishing.
* Managed **Terraform-based infrastructure provisioning**, creating reusable modules for EC2, security groups, AMIs, and key pairs; implemented local and remote state strategies.
* Configured **Route 53 DNS**, CloudFront CDN, and SSL for secure global delivery.
* Deployed Prometheus and Grafana for **metrics monitoring**, and managed Linux server environments using Docker and custom scripts.
* Documented all projects with diagrams and automated scripts; shared through personal portfolio at<https://rcvb.info>.

**Web Administrator & Network Support,** University of Camagüey “Ignacio Agramonte Loynaz”, 2019-2022

* Managed five institutional websites, achieving **99.9% uptime**.
* Collaborated with the network team to improve network efficiency, resulting in a significant **reduction in downtime**.
* Implemented remote desktop access (xrdp + VPN) during the COVID-19 pandemic, enabling **secure remote** work.
* Administered the virtual system for the university’s 2020 Tech Convention, ensuring smooth participation for over 20 national and international attendees.
* Provided technical support, **resolving 200+** incidents related to email, connectivity, and internal services.

# Projects

**Vagrant Infrastructure Simulation** — 2025

* Simulated real-world multi-machine environments using Vagrant, VirtualBox, and Ansible, reducing provisioning time by over 70% and ensuring consistent automated configuration.

**AWS Re-Architecting Web App Project** — 2025

* Refactored a monolithic app into a scalable AWS architecture using Elastic Beanstalk, RDS, ElastiCache, and CloudFront, with secure DNS and environment configurations.

**CI/CD with Jenkins, SonarQube & Nexus** — 2025

* Built a full CI/CD pipeline with Jenkins on EC2, integrating Git, Maven, SonarQube, and Nexus for automated builds, testing, quality gates, and artifact delivery behind a secure NGINX proxy.

**Terraform Infrastructure Provisioning** — 2025

* Developed modular AWS infrastructure with Terraform, enabling reusable configurations, faster deployments, and planned migration to remote state management.

# Education & Certifications

**AWS Certified Cloud Practitioner** — 2025.

**Bachelor’s Degree in Computer Science,** Universidad Central “Marta Abreu” de Las Villas – Santa Clara, 2014-2019

* Thesis**:** Moodle block for recognizing students’ facial emotions.
  + Developed a custom Moodle plugin in PHP to detect and classify facial emotions (joy, sadness, anger, etc.) using a REST API and a custom emotion recognition library.
  + Integrated real-time emotional feedback into course interactions, allowing professors to adapt content based on student engagement.
  + Applied facial recognition techniques and aligned development with Moodle’s coding standards to ensure modularity and maintainability.

# Languages Spoken

* English: Professional proficiency.
* Spanish: Native.