JESÚS VALDEMAR BENÍTEZ CASTAÑEDA

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PROFESSIONAL SUMMARY

DevOps Engineer and Developer with a strong background in Java, specializing in infrastructure automation, CI/CD pipeline design, and container orchestration (Docker, Kubernetes/K3s). Experience implementing Infrastructure as Code (IaC) with Terraform and managing cloud (AWS, GCP) and on-premises (Proxmox) environments. Experienced in applying DevSecOps principles and refactoring architectures to maximize the scalability, security, and performance of services.

TECHNICAL SKILLS

- **Cloud and Infrastructure as Code (IaC):** AWS (IAM), GCP, Terraform, Proxmox VE, Cloudflare Tunnels.
- **Containers and Orchestration:** Docker, Docker Compose, Kubernetes, K3s.
- **CI/CD and DevOps Tools:** Git, GitHub, GitLab, Maven, SonarQube, Checkmarx, Jira, ServiceNow.
- **Operating Systems and Networking:** Advanced Linux (Debian, Ubuntu, Zorin OS), Bash/Shell Scripting, basic TCP/IP networking.
- **Languages and Frameworks:** Java (8–17), Spring Boot, Python, FastAPI.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (January 2026 – Present) - DevOps Engineer / Java Developer

- I designed and automated CI/CD pipelines for Java applications, integrating unit test execution (Spring) and artifact creation through Docker containerization.
- I implemented Infrastructure as Code (IaC) using Terraform for the automated, consistent, and versioned provisioning of networks and databases.
- I orchestrated the service lifecycle by managing multiple Docker containers in Kubernetes clusters, ensuring system scalability.
- I managed security policies and access control in the cloud by configuring roles and permissions through AWS IAM, applying the principle of least privilege.

Stefanini Mexico (December 2024 – December 2025) - Java Microservices Developer & DevOps Support

- I optimized system performance and maintainability by refactoring legacy endpoints to a Clean Architecture, reducing response time by 30%.
- I implemented continuous code quality practices (DevSecOps) by identifying and mitigating vulnerabilities with SonarQube.
- Contributed to the cloud ecosystem by providing support for basic interactions with AWS services for development environments.

- I documented the complete microservices and infrastructure architecture (Swagger, UML), reducing the onboarding time for new developers by 25%.
- I developed and provided Level 3 support for RESTful APIs using the Spring stack (Boot, JPA, MVC) and Maven, and managed incidents efficiently using Jira.

NTT Data Mexico (January 2024 – November 2024) - Java Backend Developer

- I participated in defining and implementing continuous integration (CI/CD) practices to streamline the deployment of banking microservices to production.
- I gained experience with the public cloud by collaborating on specific operational and deployment tasks on Google Cloud Platform (GCP).
- I ensured database performance by tuning and optimizing stored procedures and complex SQL queries in Oracle 11g.
- I managed the incident and change lifecycle by applying ITIL best practices through ServiceNow and Jira.

PERSONAL PROJECTS AND SELF-MANAGED INFRASTRUCTURE (HOMELAB)

- I designed and managed a scalable on-premises virtualization environment using Proxmox VE, provisioning and managing multiple Linux servers and virtual machines (Debian/Ubuntu Server) to emulate production architectures.
- I orchestrated a distributed Kubernetes cluster by deploying K3s across multiple physical nodes (including ARM architecture with Raspberry Pi), configuring continuous deployment and service resilience.
- I containerized and deployed self-managed application ecosystems using Docker and Docker Compose, isolating dependencies and optimizing hardware resource consumption.
- I implemented secure networks and encrypted remote connectivity by configuring Cloudflare Tunnels, protecting the internal infrastructure without exposing public ports and applying Zero Trust security principles.
- I developed a GitOps and automation approach for maintaining the on-premises infrastructure, managing resource monitoring and distributed data persistence.

EDUCATION

Computer Systems Engineering, Universidad del Valle de Atemajac

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LANGUAGES AND COURSES

- **Languages:** Spanish (Native), Technical English (B1) — Fluent ability to read documentation and communicate in writing on technical topics
- **Relevant Courses:** Learn Docker from Scratch to Swarm and Kubernetes (Udemy), Complete DevOps-SRE Course from Scratch (Udemy), AWS Cloud Architecture for Java Spring Boot Developers (Udemy).