NELLY B. HERNÁNDEZ

DEVOPS/SRE

CONTACT

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SKILLS

- Terraform
- Ansible / AWX
- Packer
- Kubernetes / K3s
- Helm
- Docker
- Jenkins
- Vault
- Dynatrace / Datadog
- Pipelines / Azure DevOps
- Linux (Administration
- Bash Scripting)
- F5 Load Balancer
- Git / GitHub
- Python / Django
- C programming language
- JavaScript / Ajax
- Postman / Insomnia
- CMS (Adobe, Rhythmyx)
- Production Support

CLOUD EXPERTISE

- Azure: Virtual Machines, DevOps Pipelines, Key Vault, Monitor, Active Directory (Entra ID), Bastion, Site Recovery, Azure Kubernetes Service (AKS), VNets, Subnets, NSGs, Web Application Firewall (WAF)

- AWS: EC2, IAM, S3, CloudWatch, Elastic Kubernetes Service (EKS), VPC

LANGUAGES

Spanish

English

PROFILE

- DevOps & Cloud Engineer with 6+ years in software engineering and 4+ years specializing in DevOps/SRE. Experienced in automating infrastructure, building CI/CD pipelines, and driving secure cloud adoption across AWS and Azure. Skilled in Infrastructure as Code with Terraform and Ansible (migrating legacy Chef cookbooks into modern Ansible roles/collections), container orchestration with Kubernetes and Docker, and secrets/security management with Vault.
- Hands-on experience in observability and monitoring, including Dynatrace for distributed traces, alerts, and SRE practices. Strong background in Linux system administration and troubleshooting, combined with cloud-native design for scalability and reliability. Adept at bridging development and operations, enabling teams to deliver faster while maintaining compliance and security (DevSecOps).

- Currently expanding expertise toward Networking and Data Engineering.

TECHNICAL BACKGROUND

- Infrastructure Automation: Migrated legacy infrastructure from Chef to Ansible, building roles, collections, and reusable templates; automated provisioning and patching with AWX.
- Cloud & IaC: Designed and deployed scalable infrastructure on AWS and Azure using Terraform, improving provisioning speed and reliability.
- Containers & Orchestration: Managed Kubernetes clusters and Docker workloads, enabling SOA deployments and integrating with CI/CD pipelines.
- Security & Secrets Management: Implemented Vault for secure secrets management and enforced DevSecOps practices, including compliance and vulnerability mitigation.
- Observability & SRE: Leveraged Dynatrace for distributed tracing, monitoring, and incident response; applied SRE principles to improve reliability and performance.
- CI/CD & Collaboration: Built pipelines with Jenkins and Azure DevOps, integrated automated testing/security scans, and managed version control with Git/GitHub.

24 Hour Fitness, Inc.

Duration: 1 year and 9 months – actual

Industry/Client and Location: 24 Hour Fitness
Role: Site Reliability Engineer / DevOps
Automation: Dynatrace, Linux, Ansible, Bash, Jenkins, Docker, Kubernetes
Languages: Python, Bash, YAML files.

- **Responsibilities/Deliverables:**
- Automated migration processes from Rhythmyx CMS to microservices using Jenkins pipelines, reducing manual deployment steps and improving consistency.
- Enhanced observability by automating Dynatrace dashboards and alerts, registering new services, and improving incident response coverage.
- Migrated infrastructure automation from Chef to Ansible, deploying with AWX to streamline configuration management.
- Troubleshot and managed Kubernetes clusters, including mounting NFS volumes, deploying new services, and ensuring workload stability.
- Configured and maintained F5 load balancers and decor servers to support high-availability applications.
- Built and maintained CI/CD pipelines with Jenkins, including new Docker image–building pipelines and integration with Terraform/Ansible.
- Eliminated repetitive manual tasks with advanced Bash scripting and process automation, improving operational efficiency across environments.
- Supported east-west traffic implementation to optimize service communication within Kubernetes clusters

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DEVOPS/SRE

OneAmerica by TechMahindra

Duration: 24 months.

IIndustry/Client and Location: OneAmerica by TechMahindra
Project Description/Scope: Infrastructure creation and automation for cloud deployments, with a focus on IaC, CI/CD, and containerized workloads in Azure. Delivered automation for infrastructure provisioning, observability, and DevOps pipelines supporting enterprise applications.
Automation Stack: Linux administration, Ansible, Terraform, Azure DevOps Pipelines, Docker, Kubernetes, Packer (golden images), Azure services (VMs, Key Vault, Monitor, Blob Storage).
Role: DevOps Engineer

- **Responsibilities/Deliverables:**

- Designed and managed cloud infrastructure with Terraform, ensuring scalable, repeatable, and compliant deployments across environments.
- Built and maintained CI/CD pipelines in Azure DevOps, integrating versioned infrastructure code and automated testing to standardize deployments.
- Developed “single-click” automation scripts (Bash, PowerShell, Azure CLI) to streamline provisioning of Linux/Windows VMs, reducing manual effort and accelerating multi-environment delivery.
- Enhanced observability by configuring Azure Monitor Data Collection Rules, gathering targeted telemetry, and integrating with automation workflows.
- Secured sensitive workloads by integrating Azure Key Vault into pipelines, automating credential management and compliance enforcement.
- Optimized Snowflake infrastructure code for data warehousing, improving efficiency and operational reliability.
- Improved team collaboration by versioning Terraform state files in Azure Blob Storage with remote locking and by promoting DevOps best practices (Git-based workflows, peer code reviews, automated testing).
- Reduced downtime by proactively troubleshooting infrastructure deployment issues in real time, ensuring faster recovery and improved reliability.

CLOUD EXPERTISE

- Standardized multi-cloud infrastructure by migrating from Terraform OSS to Terraform Enterprise, creating modular templates for AWS and Azure.
- Automated secure provisioning of EKS and AKS clusters with Terraform, Sentinel policies, and GitOps (ArgoCD), ensuring compliance and scalability.
- Integrated Vault with Terraform/Kubernetes for dynamic secrets, key rotation, and high-availability secret management with disaster recovery.
- Enhanced observability and autoscaling through Prometheus, Azure Monitor, and AWS CloudWatch, improving reliability and cost efficiency.
- Strengthened security & compliance with RBAC, audit logging, and Sentinel policies embedded in pipelines and Kubernetes operations.
- Built self-service infrastructure modules and workflows with Ansible, Jenkins, and Azure Pipelines, empowering developers and reducing manual effort.
- Improved resilience with disaster recovery strategies using Azure Site Recovery and AWS Backup.
- Advanced DevSecOps practices by embedding secrets injection, compliance validations, and gated approvals into CI/CD pipelines.

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D E V O P S / S R E

Vault Intensive

Duration: 6 months

Project Description/Scope: Vault Project Bootcamp program at TechMahindra.

- **Vault & Security Expertise**
- **Linux Administration:** Experienced across multiple distributions with strong troubleshooting and automation skills.
- **Secrets Management:** Deployed and managed Vault clusters (HA/Raft) with disaster recovery, integrating with Kubernetes, AWS, and Azure.
- **Dynamic Credentials & Encryption:** Automated dynamic secrets for PostgreSQL, MySQL, MongoDB with root credential rotation; implemented encryption-as-a-service for certificates, SSH keys, and sensitive data.
- **Security & Policy Enforcement:** Sentinel and ACL policies.
- **Infrastructure as Code:** Integrated Vault with Terraform, Ansible, and HSM auto-unsealing; enabled Vault Agent injection for Kubernetes workloads.
- **CI/CD & GitOps:** Integrated Terraform Cloud with GitLab for secure and automated pipeline deployments.

Achievements

- **Earned two Vault certifications, demonstrating advanced expertise in secrets management and data protection.**
- **Enhanced organizational data security posture by introducing open-source Vault solutions for multiple clients.**

DevOps

Project Description/Scope: Dou University program at TechMahindra.

Duration: 3 months

- **Cloud Infrastructure Management:** Led Terraform-based cloud resource management on Azure for efficient deployment and version control.
- **Web Server Deployment:** Successfully configured web servers (e.g., Apache, Nginx) on Kubernetes for web application hosting.
- **Ansible Automation:** Utilized Ansible for server provisioning and feature deployment, automating mass installations and streamlining workflows.
- **CI/CD Integration:** Seamlessly integrated CI/CD pipelines with GitHub Actions, enhancing code quality and collaboration.
- **Azure DevOps Foundation:** Acquired foundational knowledge of Azure DevOps Pipelines, promoting cloud-centric DevOps practices.
- **Scripting Skills:** Demonstrated proficiency in Linux and Windows scripting for automation and process management.
- **Multi-Environment Infrastructure:** Designed and deployed virtual machines and networks across various environments, gaining insights into infrastructure provisioning.
- **Application Optimization:** Actively contributed to application deployments, refining solution optimization and alignment with business objectives.

Distinguished Final Project: Successfully delivered a complex microservices application on Kubernetes, showcasing advanced DevOps skills. These experiences underscore my ability to drive cloud-based DevOps initiatives, manage cloud infrastructure effectively, and optimize application deployment processes.

Software Developer

Duration: 1 year 4 months

Industry/Client and Location: Hiumanlab Software Factory, Mérida, Yucatán
Project Description/Scope: Application Testing and Debugging
Duration: Nov 2021 - February 2023
Role: Software Engineer

- Responsibilities/Deliverables:
- In-depth analysis of functional and business requirement documents.
- Improvement suggestions based on expertise for existing software.
- Modified HTML, and JavaScript for page optimization.
- Detection and documentation of bugs, from logical operation to front-end appearance.
- Achievements:
- Successfully stabilized and refined projects, improving customer experience.
- Detected both critical and minor bugs, contributing to overall project quality.

Achievements:

- Earned promotion to collaborate with software developers due to outstanding performance.

IT Support Help Desk

Duration: 1 year 8 months

Industry/Client and Location: Gasomarshal Technologies INC., Mérida, Yucatán
Project Description/Scope: Hardware repair and installation of Windows servers
Duration: Enero 2020 - August 2021
Role: Technical Support

- Responsibilities/Deliverables:
- In-depth analysis of functional and business requirement documents.
- Improvement suggestions based on expertise for existing software.
- Modified HTML, and JavaScript for page optimization.
- Detection and documentation of bugs, from logical operation to front-end appearance.
- Achievements:
- Successfully stabilized and refined projects, improving customer experience.
- Detected both critical and minor bugs, contributing to overall project quality.

Achievements:

- Earned promotion to collaborate with software developers due to outstanding performance.

CERTIFICATIONS

- Bachelors of System Computer Engineer, University of South
- Ethical Hacking from Scratch by Udemy September 5th, 2021
- Laravel 8 From beginner to advanced using Jetstream and Fortify by Udemy
- Mobile Application Development by Google June, 26th, 2018
- AWS Discovery Day an official introduction to AWS by NETEC October
- 30th, 2021 (Certificate of attendance)
- AWS Cloud Practitioner DAY I: AWS EC2 & Infrastructure by NETEC
- January 27th, 2022(Certificate of attendance)
- Azure Implemente rápidamente aplicaciones seguras en la nube by NETEC January 20th , 2022(Certificate of attendance