Jorge Holgado Alvarez

Automation & Infrastructure Architect

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I'm an engineer by nature. I always have been.

I work on complex systems where versatility is mandatory, curiosity is a requirement, and "that's how we've always done it" is not an acceptable answer. I investigate, test, break, automate and document until systems become understandable, reproducible and boring to operate.

Most of my professional life has been spent inside Linux systems and open-source stacks, designing and running database platforms at scale, as well as working on infrastructure and migration projects. I prefer automating things away rather than becoming a permanent hero.

WORK EXPERIENCE

Automation Architect / Platform Engineer (Freelance), 10/2022 – Present
Enterprise Customers
Operating as an independent engineer designing and automating infrastructure and database platforms for multiple clients, focusing on reliability, observability and operational simplicity.

- Designing automation platforms for Linux systems and large-scale database environments (Oracle, PostgreSQL, MySQL)
- Analyzing system behavior and performance across infrastructure layers (OS, storage, database, virtualization) to identify root causes and optimize reliability
- Building automated monitoring, alerting and dashboarding to support production operations and reduce operational noise
- Leading migration and upgrade projects (OS, platform transitions, VM lifecycle)
- Executing large-scale OS migrations (CentOS → AlmaLinux) for CI/CD platforms (~5000 users)
- Working with KVM-based virtualization (Proxmox) and cloud environments (AWS, Kubernetes)
- Developing infrastructure automation using Terraform, Ansible, CI/CD pipelines and infrastructure-as-code practices

Typical stack: Linux, Oracle, PostgreSQL, MySQL, Prometheus, Grafana, Datadog, Nagios-based systems, Terraform, Ansible, GitLab CI/CD, Bash, Python

Platform Engineer, *Actito* 02/2022 – 09/2022 | Remote, Spain
Worked on automating infrastructure and application platforms using Infrastructure as Code principles in a hybrid environment (on-premise VMware + AWS).

- Automating infrastructure using Terraform as the control layer across on-prem and cloud environments
- Enforcing system configuration and state using Puppet
- Operating and automating a broad open-source stack (load balancers, application servers, databases, messaging)
- Designing monitoring solutions with Nagios XI, including custom checks and plugins
- Ensuring consistency, repeatability and reduced manual intervention across environments
- Supporting high-availability systems with focus on reliability and operational stability

Typical stack: Linux, MySQL, Nagios XI, Terraform, Puppet, Bash, Python, HAProxy, Redis, VMware, AWS

Platform Engineer / Database Engineer, *VoxelGroup* 12/2012 – 02/2022 | Barcelona, Spain
Worked on a high-throughput invoicing platform processing hundreds of thousands to millions of transactions per month, with Oracle at its core.

- Designed and built a KVM-based virtualization platform with HA (Corosync) and shared storage (GFS)
- Led migration from on-premise KVM clusters to Nutanix, including workload transition
- Executed high-risk Oracle database migrations under full downtime constraints, ensuring data integrity
- Designed and automated an internal Oracle DBaaS platform for provisioning and lifecycle management
- Introduced Ceph to offload non-relational workloads from Oracle

Typical stack: Linux, Oracle, PostgreSQL, KVM, Corosync, GFS, Ceph, Nutanix, Rundeck, SaltStack, Jenkins, Bash, Python

Systems & Automation Foundations, *AtlasIT/NTT/BSC/IBM/HP* 10/2005 – 11/2012 | Barcelona, Spain
Built the foundations of my career working in large-scale, production-critical environments, developing a strong focus on reliability, performance and automation.

- Worked on enterprise platforms at Atlas IT (later NTT Europe), managing full-stack systems (OS, storage, databases, applications)
- Performed production migrations and infrastructure changes on physical environments under strict constraints and downtime windows
- Administered a high-performance computing cluster at the Barcelona Supercomputing Center (CNAG), operating hundreds of nodes and large-scale storage
- Designed and deployed a VMware (ESX) cluster for management workloads, supporting internal services and development environments
- Gained deep expertise in Linux systems, performance tuning and troubleshooting at scale• Developed an early automation mindset, focusing on repeatability and reducing manual operations

Typical stack: Linux, VMware ESX, LAMP stack, Bash, Python, enterprise hardware platforms

TECHNICAL SKILLS

Operating Systems
Linux (RHEL-based, Debian-based)

Databases
Oracle, PostgreSQL, MySQL

CI/CD & DevOps
GitLab CI/CD, Jenkins, Bamboo

Scripting
Bash, Python

Virtualization & Infrastructure
KVM, Nutanix, VMware, Physical Servers

Automation & Infrastructure as Code
Terraform, Ansible, Puppet

Monitoring, Observability & Alerting
Prometheus, Grafana, Datadog, Nagios ecosystem (Nagios XI, Centreon)

EDUCATION

Oracle University, *OracleDB OCA Workshop*

Universidad Pontificia de Salamanca,
Computer systems technical degree

LANGUAGES

Spanish — Native/Bilingual | **English** — Professional | **Catalan** — Conversational