

Jorge Domingues Nunes

Platform & Delivery Engineering (DevOps / Cloud) —

AWS · Terraform · Ansible · Kubernetes · CI/CD · DevSecOps · OAuth2 / OIDC

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SUMMARY

Hands-on platform and DevOps engineer with **12+ years** of experience building and running production systems end to end: infrastructure, delivery pipelines, security and the services on top. At Co2Offset.ai I designed and built the **AWS infrastructure** (ECS / Fargate, EC2, RDS, S3, Lambda, IAM; Kubernetes with Helm; **Terraform** multi-environment; **Ansible**) behind the data pipeline that passed the Bureau Veritas audit and **unlocked €2.5M** of business, with **SOC 2 and ISO 27001** compliance. Three years inside the **European Central Bank's** enterprise environment: Red Hat Linux, **Bash**, **Python** and **PowerShell** automation across Active Directory, CSP and TLS hardening and auditable operations; CI/CD at the **European Commission** in Brussels. Today I run my own production platforms on Docker, Linux and Terraform with test-gated pipelines, least-privilege deploys and health-checked services, and I build my own tooling, including an open-source MCP server for Docker, SSH and Kubernetes deployments.

PLATFORMS I RUN IN PRODUCTION

- ▶ keyprog.pt — Directus + PostgreSQL + Redis in Docker Compose behind Nginx; GitHub Actions deploy as a non-root user with fast-forward-only merges; strict CSP with SHA-256 script hashes
- ▶ api.romanceinroom.com — e-commerce backend in Docker on a Linux VPS; API gateway (token hiding, rate limiting), hardened payment webhooks, reconciliation jobs
- ▶ dev.mdbaudio.com · team.mdbaudio.com — Next.js + two Directus instances on Hetzner Linux; git-driven deploys, systemd, Auth0 (OAuth2 / OIDC, RBAC)
- ▶ api.after.zone — Go API serving 58,000+ events; test-gated linux/amd64 Docker deploys; ingestion monitored by AI agents
- ▶ **Exponent** — FastAPI / React / PostgreSQL / Redis / n8n microservices; Terraform-managed, health probes, SIGTERM draining

OPEN-SOURCE TOOLING I

EXPERIENCE

Senior Product, DevOps and DevSecOps Engineer — [MDB Audio](https://www.mdbaudio.com)



March 2026 - Present

Recording-studio platform — two Directus 12 instances + Next.js, booking and team operations · Aveiro / Remote

- **Delivery:** Hetzner Linux with git-driven deploys and systemd services; Docker Compose parity between local and production; unit, integration and e2e suites.
- **Backend & auth:** Node.js / TypeScript, PostgreSQL, Redis; Auth0 (OAuth2 / OIDC, JWT, RBAC); two-way Google Calendar ↔ Directus sync; published an MCP server so AI agents can operate the backend.

Founder & Fullstack Product Engineer — [Exponent](https://www.exponent.dev)

Jan 2025 - March 2026

AI/DevOps automation platform · in production on a Hetzner VPS

- **Infrastructure:** Docker microservices (FastAPI, React, PostgreSQL, Redis, n8n) on Terraform-managed infrastructure with systemd, health probes and graceful shutdown (SIGTERM draining).
- **Automation & governance:** AI agents run infrastructure operations (Docker container management) through MCP; LangGraph agent with state checkpointed in PostgreSQL; audit trail aligned with ISO/IEC 42001.

Founder & Full-Stack Engineer — [AFTER](https://www.after.zone)

Jun 2025 - Jan 2026

Friends & events platform · Go + PostgreSQL / PostGIS + Flutter (iOS, Android, Web) · Docker on Hetzner

- **Platform:** Go backend aggregating seven event sources into one JSON / GeoJSON API at api.after.zone (58,000+ events, 3,100+ cities) with TTL stale-while-revalidate caching and a public health endpoint.
- **Delivery & ops:** test-gated linux/amd64 Docker image builds and deploys; Next.js ops console with dashboards for every pull from the event APIs and an MCP tool so AI agents monitor ingestion; WebSocket hub where live location is held in memory only and never persisted.

E-commerce Operations & Platform Lead — [Keyprog](https://www.keyprog.pt)

Jan 2025 - Jun 2025

Own D2C store, PT · Directus 12 + PostgreSQL + Flutter (web, iOS, Android) · Docker on a VPS

- **Platform:** build and run the production backend (9,600+ SKUs, 29,000+ images, five languages, 200+ collections, 100+ API endpoints, 50+ automation flows) in Docker on a Linux VPS.
- **Identity & access:** API gateway for the mobile apps (token hiding, rate limiting); Firebase Google Sign-In federated into backend sessions; roles, policies and ACLs for guest vs. authenticated checkout.
- **Secure integrations:** payment webhook that never trusts the callback alone: status confirmed against the provider's API, amount checked, constant-time key comparison, anti-replay checks, failing safe to a 10-minute reconciliation job; idempotent ERP invoicing; atomic reservations so concurrent supplier events can't double-order.
- **Release management:** sole coordinator across six external parties with runbooks and release plans; App Store and Play Store compliance.

Senior Engineer (Backend & Platform) — [Co2Offset.ai](https://www.co2offset.ai)



Apr 2023 - Dec 2024

Forest carbon-capture SaaS — satellite + ground data · Pombal, Portugal

- **AWS:** designed and built the cloud infrastructure (ECS / Fargate, EC2, RDS, S3, Lambda, IAM), provisioned with Terraform across multiple environments and configured with Ansible.
- **Kubernetes:** Helm charts, auto-scaling and health probes running 400+ containerised microservice endpoints; PostgreSQL / PostGIS, MongoDB, Redis, Kafka.
- **Automation:** 200+ workflows covering CI/CD, ETL and event-driven ingestion of satellite and ground data; worked directly with the [European Space Agency](https://www.european-space-agency.com) on requirements.
- **Impact:** led the Bureau Veritas audit of the pipeline running on this infrastructure, securing the scientific-reliability certification that unlocked **€2.5M** of business; SOC 2 and ISO 27001 compliance.

Technical Consultant, Web Platform — [European Central Bank](https://www.ecb.europa.eu)



Mar 2020 - Mar 2023

Core CMS & multilingual web platform at scale · Frankfurt, Germany

BUILT

- ▶ [cicd-mcp-pipeline](#) (npm) — Docker (local and SSH-remote) and Kubernetes (Kustomize, Gateway API with Gloo / Envoy) control across local / staging / production; environment diffing, health checks, API token rotation, pre-deployment CI/CD validation
- ▶ [@staminna/directus-mcp-server](#) (npm) — 97%+ test coverage behind enforced CI coverage gates; runs on a least-privilege service token
- ▶ AFTER MCP — status of pulls from event APIs and ingestion ops for [after_zone](#)

SECURITY & COMPLIANCE

- ▶ [ECB](#): ran 20 Apache virtual hosts for my team with SHA-256 TLS; security policies, CSP against XSS and unauthorised access, rights administration, auditable logging of every operation
- ▶ [Co2Offset](#): SOC 2 and ISO 27001 compliance; led the Bureau Veritas pipeline audit that unlocked €2.5M
- ▶ Exponent: audit trail aligned with ISO/IEC 42001
- ▶ Payment webhooks: provider-side verification, constant-time key comparison, anti-replay, fail-safe reconciliation

CERTIFICATION

- ▶ AWS Certified DevOps Engineer – Professional — in preparation

- **Enterprise environment**: Red Hat Linux with Bash and Python automation; PowerShell across Microsoft Active Directory; integration with Java / Spring Boot services; GitLab + JIRA release flow.
- **Apache & security**: ran 20 Apache virtual hosts for my team, secured with SHA-256 TLS certificates; reviewed and implemented security policies; Content Security Policy against XSS and unauthorised access; security review of existing modules.
- **Core platform**: user and group rights administration, staging → preview → internal → live sync tool, scheduled job queue, and log management for auditable tracking of every operation.
- **Operations**: build and packaging scripts; production migrations; diagnosed and resolved escalated incidents; trained 1st- and 2nd-level support; Elasticsearch across 24 languages and millions of pages.

Senior Developer — [European Commission](#)



Apr 2018 – Jan 2020

Public-facing platforms · Brussels / Luxembourg

- **CI/CD**: built pipelines in Jenkins and GitHub Actions with automated builds and Jest testing; led several platform migrations.
- **Operations**: MySQL and Apache tuning; batch-processing tools (Drupal, Drush CLI) that reduced deployment times and configuration errors; relational data model for tens of thousands of users.

EDUCATION

Computer Graphics & Multimedia Engineering — [Instituto Politécnico de Viana do Castelo](#)

Sep 2003 – Jun 2006

Escola Superior de Tecnologia e Gestão · 3-year Bacharelato (pre-Bologna undergraduate degree)

- C, C++ and Java with object-oriented design and real-time systems; linear algebra, calculus and algorithms; IT security and networks.

Computer Technician (Informatics) — [Escola Secundária de Pombal](#)

Sep 2001 – Jun 2003

Programming foundations, SQL databases, Windows / Linux systems, networking and IT security

SELECTED STACK

Cloud & IaC: AWS (ECS / Fargate, EC2, RDS, S3, Lambda, IAM), Terraform (multi-environment), Ansible; Hetzner Linux VPS

Containers & orchestration: Docker / Compose, Kubernetes, Helm, Kustomize, Gateway API (Gloo / Envoy)

CI/CD: GitHub Actions, GitLab, Jenkins; test-gated builds and enforced coverage gates (Vitest, Jest)

Security & IAM: OAuth2 / OpenID Connect, JWT, RBAC (Auth0, Firebase); Active Directory; CSP, TLS, rate limiting, least-privilege deploy users and service tokens; SOC 2 / ISO 27001

Scripting & languages: Bash, Python, PowerShell; Go, Node.js / TypeScript

Linux & operations: Red Hat Linux, Ubuntu, systemd, Nginx and Apache (multi-vhost); health probes, graceful shutdown, logging and incident response

Data: PostgreSQL / PostGIS, Redis, MongoDB, Kafka, Elasticsearch

AVAILABILITY

- **Long-term engagement**: freelance, B2B or contract; remote (CET), hybrid or relocation, including Brussels.