Pedro Lucas Farinha

DevOps | Cloud | SRE | Systems Administration | Database Management

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Summary

- 13+ years of experience in DevOps, Systems Administration, and Database Engineering
- Proven leadership in cloud infrastructure, CI/CD pipelines, and hybrid environments (AWS + on-prem)
- Delivered large-scale automation, monitoring, and cost optimization solutions for IoT and enterprise systems
- Based in Saskatoon, SK with European work experience.

Technical Skills

Cloud & Orchestration: AWS (EC2, ECS, RDS, IAM, VPC), Kubernetes (EKS, GKE, OpenShift, Talos), Helm, Terraform, Ansible, Docker, GitLab CI, ArgoCD, Argo Workflows, Argo Events, Salt Stack
Monitoring & Observability: Prometheus, Grafana, AWS CloudWatch, Zabbix, Elasticsearch
Database & Data Engineering: PostgreSQL, TimescaleDB, Oracle RAC, MS SQL Server, Oracle GoldenGate, Liquibase
Security & Networking: Zero Trust Architecture (Tailscale), OpenVPN, PKI, Mutual TLS (mTLS), IAM, TCP/IP
Languages & Tools: Bash, Python, PL/SQL, Go (Golang), Jenkins, Rundeck, Oracle WebLogic, Cloudera

Professional Experience

Freelance IT Consultant (Devops, Platform Engineering, SRE)
Self-Employed | Saskatoon, SK | May 2025 – Present

- Independent consulting services, with a focus on cloud infrastructure strategy, automation as well as establishing a Devops culture.
- **Technologies:** Google Cloud, **Terraform**, **GitHub Actions**, **GKE**, **Helm**, **Kustomize**, **ArgoCD**, **Stackgres**, **OCI**
- Designing and implementing **GitHub Actions CI/CD pipelines** to accelerate development lifecycles, using **GitHub Actions** and **ArgoCD**.
- Migrating web applications from **Google App Engine** to **GKE**.
- Developing a PoC for Change Data Capture of Oracle databases using Open Source Software (Debezium) for a major foreign retailer.
- Contributing to a customer project for deploying HA **PostgreSQL** on **Oracle Kubernetes Engine**.

Principal DevOps Engineer
Smartex.AI | Porto, Portugal / Remote | June 2023 - May 2025

- Led initiatives to improve the stability, performance, and cost-efficiency of cloud and on-premises infrastructure while mentoring junior engineers.
- **Technologies:** AWS, PostgreSQL, Terraform, GitLab, Go (Golang), Rundeck, Tailscale, PostgreSQL, Proxmox, Python, TimescaleDB, others.
- **Achievements:**
  - Managed and implemented **AWS infrastructure** using **Terraform**, such as **Lambda Functions**, **EC2**, **ECS**, **SQS**, **RDS** and **VPCs**, using **Terraform** and **GitLab-CI pipelines**.
  - Enhanced security and network performance for 1,300+ IoT devices by migrating from **OpenVPN** to a **Zero Trust** network architecture using Tailscale and **Salt Stack** for rollouts.
  - Reduced GitLab CI build times by **70%** and operational costs to **20%** of the original expenditure by deploying a **Proxmox virtualization** cluster for GitLab runners.
  - Introduced **SLO concepts** to technical support teams, as well as implemented **Jira Service Management** for **on-call support** using **Zabbix** and **Prometheus**.
  - Implemented a hybrid **Elasticsearch** solution (**AWS + on-prem**) for **centralized log management** for **ECS** (using AWS **Firelens**) and edge devices (using **Filebeat**), using **Grafana** for observability.
  - Deployed an **Stackgres** on EKS to facilitate the migration of **RDS** databases to **PostgreSQL** with **TimescaleDB**.
  - Introduced **ArgoCD** for managing Stackgres databases and web apps using **GitOps** strategies.

DevOps Engineer for Cybersecurity
Siemens | Lisbon, Portugal | January 2021 - June 2023

- Member of the Cybersecurity department, focused on managing and optimizing a security vulnerability platform from a DevOps perspective.
- **Achievements:**

  - Implemented a secure **CI/CD** process using **GitLab** and **Ansible** for a legacy **Perl** application.
  - Integrated **Liquibase** for automated database schema migrations using GitLab-CI.
  - Delivered a high-availability Proof of Concept (PoC) for containerizing a vulnerability management platform on a secure **OpenShift Kubernetes** cluster.
  - Optimized multiple **Oracle SQL** and **PL/SQL** batch processes, significantly reducing execution times and database resource consumption.
  - Developed several **bash shell scripts** for refreshing non-productive databases with **anonymized production data**.

DevOps Engineer & Database Administrator (DBA)
PROZIS.TECH | Maia, Portugal | October 2019 - December 2020

- Managed **MSSQL** database infrastructure, architected **GitLab CI** pipelines, and led the adoption of **PostgreSQL**.
- **Achievements:**
  - Deployed a custom, containerized, automation for deploying **PostgreSQL clusters** with **automated backups**, **scaling**, and **failover capabilities**, while performing database migrations to new infrastructure with near-zero downtime using **binary replication**.
  - Deployed a 9-node **Cloudera CDH** cluster to support production big data processing workloads.
  - **Containerized legacy applications** using Docker and **automated deployments with GitLab CI**.

IT Consultant
Optimizer | Porto, Portugal | August 2011 - October 2019

- Provided expert consulting for national and international clients including SONAE, Adeo/Leroy Merlin, and Oracle Retail Consulting.
- **Achievements:**
  - Deployed, administered, and performance-tuned large-scale Oracle infrastructures for major retail clients, including **Oracle RAC**, **WebLogic**, and **Oracle SOA Suite**.
  - Designed and implemented the core technical infrastructure for a national healthcare loyalty program, ensuring high availability and secure communication via mutual **TLS**.
  - Performed **advanced JVM Garbage Collection** optimization for large **Oracle WebLogic clusters**.

Education & Certifications

Certifications

- CELPIP - General Test: Average 11 (L:11, R:10, W:12, S:12) (2025)
- Certified ScrumMaster® (CSM®) | Scrum Alliance (2023)
- Continuous Integration and Continuous Delivery (CI/CD) | Coursera (2023)
- Version Control with Git | Coursera (2023)
- Learning HashiCorp Vault | LinkedIn Learning (2022)
- DevOps on AWS Specialization | Coursera (2021)
- AWS Cloud Technical Essentials | Coursera (2021)
- Ansible Essential Training | LinkedIn Learning (2021)
- Oracle PL/SQL Developer Certified Associate | Oracle (2012)

BSc in Technologies and Information Systems (Grade A)

- University of Minho, Guimarães, Portugal, 2011