

## Contact

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## Top Skills

Troubleshooting  
Remote Work  
Root Cause Analysis

## Languages

Portuguese (Native or Bilingual)  
English (Full Professional)

## Certifications

Continuous Integration and  
Continuous Delivery (CI/CD)  
Version Control with Git  
Databases and SQL for Data  
Science  
DevOps on AWS: Code, Build, and  
Test  
Time Management: Working from  
Home

## Publications

Web-assisted laboratory for control  
education : remote and virtual  
environments  
Cyberlaw Research Centre of the  
University of Lisbon School of Law  
(CIJIC)

# Pedro Farinha

Platform/Devops Engineer | Making sure infra works for us (not the  
other way around) | Reducing TOIL | Automation | Boosting Devs'  
productivity  
Canada

## Summary

Throughout my professional career, I had the opportunity to  
experience several roles and technologies, most of them as  
Systems and Database Administration, DevOps engineering and  
development.

This heterogeneity provided me with valuable knowledge of working  
in large environments and different teams, and has provided me  
valuable skills and knowledge to improve important collaborations  
between the infrastructures and development teams.

Being an avid self-learner, curious by nature and committed with my  
professional responsibilities, I am always challenging myself to reach  
the next step in my career.

I have a special interests in automation, security, databases, Free  
and Open Source Software and how to improve mine and my team's  
performance.

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## Experience

DIGESTAID - Digestive Artificial Intelligence Development  
Platform Engineer  
May 2025 - Present (3 months)

Smartex.ai  
Principal Devops Engineer  
August 2023 - May 2024 (10 months)

Member of Smartex.AI's DevOps team. Improved stability, performance, and  
cost of existing infrastructure while leading and mentoring technical teams.

Achievements:

- Improved security and performance by replacing OpenVPN with a Zero Trust solution for 1,300+ IoT devices.
- Migrated GitLab runners to on-premises hardware, reducing build times by 70% and costs by 80%.  
Implemented a hybrid Elasticsearch solution for centralized log management.
- Deployed Stackgres on EKS for migrating RDS databases to TimescaleDB.
- Streamlined deployments with GitLab-CI/Terraform pipelines and Kubernetes (ArgoCD + Argo Workflows). Enhanced observability with Zabbix 7, Prometheus, and Grafana.
- Implemented a web based self service platform for automating technical routine tasks.
- Introduced Jira Service Desk for Technical Support ticket tracking and escalations.
- Prior to joining as a full-time employee, I completed several projects as a freelancer, such as a ChatOps platform for AWS management and an IoT hardening solution. I also provided comprehensive Cybersecurity training for Smartex employees.

Tech Stack: Ansible, ArgoCD, Argo Workflows, AWS, Elasticsearch, GitLab CI, Grafana, JSD (Jira Service Desk), Kubernetes, Helm Charts, OpenVPN, PostgreSQL, Prometheus, Proxmox, Amazon RDS, SaltStack, Slack, Tailscale, Telegraf, Terraform, Zabbix, others.

## Siemens

### DevOps Engineer for Cybersecurity

January 2021 - June 2023 (2 years 6 months)

Lisboa, Portugal

Member of the Cybersecurity department of Siemens. Participated in several projects related to vulnerability management on a DevOps perspective.

### Achievements:

- Implemented a CI/CD process with GitLab and Ansible to improve reliability in deployments, adhering to strict security requirements. Implemented Liquibase for database code version control.

- Delivered a PoC of a vulnerability management application running on OpenShift.

Improved performance in several Oracle SQL and PL/SQL batch processes reducing processing times and resources.

- Managed productive and non-productive Apache Web Servers and Oracle databases.

Tech Stack : RHEL, Ansible, Docker, GitLab, Oracle Database, F5 Load Balancers, Digital Certificates (PKI), Python, Liquibase, others.

Prozis

DevOps/DataOps/DBA

October 2019 - December 2020 (1 year 3 months)

Porto Area, Portugal

Managed Prozis' MSSQL database infrastructure, GitLab-CI pipelines and implemented PostgreSQL.

Achievements:

- Introduced PostgreSQL by delivering a custom automation for deploying HA PostgreSQL clusters using Docker. Automated backups, horizontal scaling and auto failover.

- Deployed a 9 node Cloudera CDH cluster for production.

- Containerized legacy apps and automated deployments with GitLab-CI.

- Managed a monitoring platform based on Grafana, Prometheus and ELK.

- Provided 24/7 on-call support for Databases and DevOps infrastructure.

- Deployed a Kubernetes PoC based on Kubespray for containerized applications.

Tech Stack : Ansible, Docker, GitLab, F5 Load Balancers, Python, Bash, Dell/EMC DataDomain, Cloudera, Kubernetes, PostgreSQL, Microsoft SQL Server, others.

## Oracle Retail

### Technical Consultant

February 2018 - October 2019 (1 year 9 months)

Porto e Região, Portugal

Participated on a large implementation of Oracle Retail 16 for Adeo/Leroy Merlin, where I was responsible for managing Oracle infrastructures and implementing a CI/CD pipeline.

#### Achievements:

Developed a CI/CD integration with GitLab and Jenkins and customized ORPatch (Oracle Retail v16 patching tool) to accept custom patches adapted to the Client's reality;

Responsible for maintaining the Project's environments, databases, and new deployments.

#### Technologies:

- Oracle Database 12c
- WebLogic 12c
- Oracle Retail
- Git and GitLab CI
- Jenkins
- others

## OPTIMIZER - Serviços e Consultadoria Informática Lda

### Oracle Consultant

August 2011 - October 2019 (8 years 3 months)

Porto Area, Portugal

Participated as an contractor in several projects related to Oracle technologies, mostly on large enterprises, listed below:

#### Technologies:

- Oracle Database
- Oracle Retail
- Oracle WebLogic
- Oracle GoldenGate

- Oracle Linux
- others

SONAE / Modelo Continente Hipermercados S.A.  
SRE / Oracle Technical Infrastructure Administrator  
January 2015 - January 2018 (3 years 1 month)

Participated in the implementation of several projects, as well as managed the full infrastructure of the Oracle Integration platforms.

Achievements:

- Performed optimizations on the client's integration platforms by tuning WebLogic JVMs garbage collections and memory allocations and performed database tuning on production systems;
- Developed several monitoring scripts and automatisms for OEM Cloud Control and proactively monitored production environments through the analysis of performance metrics;
- Provided 2nd level support for projects and assisted deliveries by defining technical architectures for optimal stability and performance on a long-term basis;
- Deployed the full stack of several productive and non-productive environments from the OS to the functional product;
- Performed troubleshooting and system administration tasks on production Linux and AIX systems;
- Participated in the migration of the backups platform to a more modern solution.

Technologies:

- WebLogic 11g/12c
- Oracle SOA Suite
- Oracle Database 11gR2/12c
- OEM Cloud Control, GoldenGate
- Oracle Linux/CentOS/RHEL

- LVM
- Shell Scripts
- VMWare vCenter & ESXi
- Ansible
- Apache
- others

## Logic Information Systems Brazil

### PL/SQL Developer

August 2014 - November 2014 (4 months)

C&A Modas São Paulo, Brazil

Integrated the Customer's development team of Logic Information Systems.

#### Achievements:

Developed PL/SQL, Shell scripts, Pro\*C and RIB integration flows for C&A Latin America (On-Site in Alphaville, São Paulo, Brazil).

#### Technologies:

- Oracle Database 12c
- Oracle Retail Integration Bus
- Oracle Retail
- PL/SQL
- Shell Scripts
- others

## Wipro

### PL/SQL Developer

May 2014 - July 2014 (3 months)

Participated on a small term project to deliver a business requirement of the Customer SONAE related to the improvement of their end customer experience.

#### Achievements:

Developed PL/SQL and Pro\*C code for integration processes for Modelo Continente Hipermercados (SONAE).

Developed a PL/SQL process to integrate new products into Retek 9.

#### Technologies:

- PL/SQL
- Pro\*C

- Shell scripts
- others

## SONAE / Modelo Continente Hipermercados S.A.

### Oracle Database Administrator

November 2013 - April 2014 (6 months)

Integrated the Client's DBA team performing typical Oracle Database administration tasks.

#### Achievements:

Performed database administration tasks such as permission management, reorganization of tablespaces, PL/SQL code deployments, data migrations and SQL performance tuning.

#### Technologies:

- Oracle Database 10g, 11g
- others

## Retail Consult SA

### Linux systems administrator and Oracle DBA

January 2013 - October 2013 (10 months)

Participated as Technical Consultant for AHOLD USA, Mercal, Venezuela and Lowe's Home Improvement, USA.

#### Achievements:

Assisted senior colleagues in deploying and monitoring the environment before a critical Go-Live.

Provided Oracle Retail infrastructure management and administration services to Mercal (Off-Site);

Mentored and provided training to Client's employees on typical database administration tasks and management of their Oracle Retail solution (On-Site at Mercal in Caracas, Venezuela);

Deployed Oracle Retail applications on the Customer's Oracle Retail infrastructure and performed a migration of Oracle Retail v13.1.1 to 13.1.7 (On-Site at Lowe's Headquarters in Mooresville, NC, USA).

#### Technologies:

- Oracle Database 11g,

- Oracle Retail 12 and 13 (RMS, ReIM, others),
- OAS10g,
- Oracle Linux,
- others

## ITIM

### Java Developer

October 2012 - January 2013 (4 months)

Porto, Portugal

Participated in the development of a release of Profimetrics.

#### Achievements:

Implemented an LDAP authentication mechanism on Profimetrics.

Developed several functional requirements for the solution.

#### Technologies:

- Java;
- MVC;
- PL/SQL;
- others

## Wipro

### Junior Oracle PL/SQL Developer

August 2011 - December 2011 (5 months)

Maia, Portugal

Developed and tested PL/SQL scripts for volume and performance testing of the Oracle Retail RMS database. (Off-Site for Ahold EU).

#### Achievements:

Developed a custom volume performance testing suite based on PL/SQL and Pro\*C processes.

#### Technologies:

- PL/SQL,
- Pro\*C
- shell scripts
- others

## Universidade do Minho

### Fellow for Scientific Research

May 2011 - September 2011 (5 months)



## Universidade do Minho

Member of the project "WALC - Web Assisted Laboratory for Control Engineering on-line"

### Achievements:

Developed a PHP-C# web application to allow students of Electronic Engineering to remotely program and access OMRON PLC's.

Reverse engineered the OMRON Ethernet communications protocol to integrate with third-party solutions

### Technologies:

- PHP;
- C#;
- OMRON PLC's;
- OpenWRT;
- Shell Scripts;
- others

## Universidade do Minho

Fellow for Initiation on Research

September 2009 - September 2010 (1 year 1 month)

Member of the ALGORITMI research unit of the Department of Information Systems

### Achievements:

Developed a Python-based interaction framework to integrate Wii Remotes with Linux-based routers;

Developed an application based on Java to display interactions with Wii Remotes.

### Technologies:

- Python
- Bluetooth
- Linux
- others

## Caixa Mágica Software

Summer Internship - Developer

July 2009 - September 2009 (3 months)

Participated on a voluntary Summer internship related to the development and improvement of Linux Caixa Mágica - a Portuguese Linux distribution.

#### Achievements:

- Developed a PHP web service to support the retrieval of addons by a C++ based game.
- Developed a management website for add-ons and a back office.

#### Technologies:

- PHP, HTML
- C++
- others

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## Education

### Universidade do Minho

Licenciatura, Tecnologias e Sistemas de Informacao (Technologies and Information Systems) · (2007 - 2011)

### Universidade Portucalense (UPT)

Computer Science for Management · (2005 - 2007)