HENRIQUE LOURENÇO

IT CONSULTANT
SITE RELIABILITY ENGINEER
MSC ELECTRICAL AND COMPUTER ENGINEERING

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ABOUT ME

I'm originally from the Azores, Portugal, and studied Eletrical and Computer Engineering in Lisbon, Portugal. I have decided to transfer to the IT field and have worked as an SRE for over 2 years, during which I have honed my skills in developing and implementing modern solutions, utilizing best practices and using a DevOps mindset.

Outside of work, I enjoy gaming and grabbing a beer with my friends. I'm always eager to learn, adapt, and contribute to impactful projects.

LANGUAGES

Portuguese - Native

English - C1

CERTIFICATIONS

Red Hat Certified Specialist in Developing
Automation with Ansible Automation Platform

PCAP - Certified Associate in Python Programing

Red Hat Certified OpenShift Application Developer

Red Hat Certified Specialist in Containers

SPORTS

Judo - 2 years

Badmington - 5 years

OTHER HIGHLIGHTS

Driver's licence - B

WORK EXPERIENCE

Crossjoin Solutions (Jan 2023 - Present)
IT Consultant - Site Reliability Engineer
Portuguese Financial Sector

- **Enhanced operational efficiency** by designing and implementing a modern operations architecture focused on control, observability, and support processes.
- **Observability & Monitoring**
  - Implementing Grafana Stack (Grafana, Loki, Mimir, OnCall) on an OpenShift cluster to enable comprehensive system monitoring.
  - Implementing Grafana Alloy as a log and metric scraper/forwarder, optimizing data collection and processing.
  - Leverage Grafana for centralized observability and unified alerting, improving incident detection and response times.
- **Control & Automation**
  - Refactored and modernized legacy Ansible code, introducing version control and migrating to Ansible Automation Platform for streamlined management.
  - Developed automated remediation workflows by integrating Grafana alerts with event-driven Ansible, enabling immediate incident response.
- **Support Processes & Optimization**
  - Centralized all code in GitLab with version control, enhancing collaboration and maintainability.
  - Boosted resource efficiency by significantly optimizing code performance and improving readability.
  - Containerized custom applications and deployed them on OpenShift, ensuring scalability and consistency.
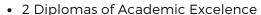 - Automated deployment pipelines using GitLab CI/CD, reducing manual overhead and accelerating delivery.

ACADEMIC EXPERIENCE

Electrical and Computer Engineering (Sep 2017 - Nov 2022)
Instituto Superior Técnico - ULisboa

- Bachelor's GPA: 17/20
- Master's GPA: 18/20
- Major: Energy Minor: Electronics
- 2 Diplomas of Academic Excelence
- 3 Diplomas of Academic Merit

Erasmus participant (Oct 2021 - Mar 2022)
Technische Universität München - Munich, Germany

- Duration: 6 months

Member of E2TES research group (Sep 2021 - Nov 2022)

- Worked in research group for master's thesis
- Created an empirical model for predicting critical currents of 2G High-Temperature Superconductors (HTS).

EXTRACURRICULAR EXPERIENCE

Web Summit Volunteer - Lisbon, Portugal (2019)

Neecathon Participant (2019)

TECHNICAL SKILLS

Programing Languages

Python

Go

C

Versioning

Git (Gitlab/GitHub)

CI/CD

GitLab CI/CD

Infrastructure

Windows

Linux (Ubuntu, RHEL)

Messaging/Event Streaming

Apache Pulsar

Storage

Redis

MongoDB

Containerization

Docker

Podman

OpenShift

Kubernetes

Automation/Control

Ansible

Ansible Automation Platform

Obervability/Monitoring

Grafana

Grafana Mimir

Grafana Loki

Grafana Alloy

Prometheus

Elastic Search

Incident Management

Grafana OnCall

Data Analysis

MATLAB

Pandas

NumPy

Empirical Modelling

Machine Learning

Gaussian Process Regression

Forecasting Models (Prophet + Neural Prophet)

Electrical Simulation

LTspice

LabVIEW

Vivado

Code Editors

Visual Studio Code

Vim

Documentation & Reporting

MS Office (Word, Power Point, Excel)

Confluence

LaTeX

Project Management

Jira