

PAULO ROBERTO ALBUQUERQUE

Backend Software Engineer / Site Reliability Engineer / DevOps Engineer

Jaraguá do Sul, Santa Catarina, Brazil

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WORK EXPERIENCE

Yubico

Backend Software Developer (Contractor)

Remote

Feb 2026 – Present

WEG S.A.

Engineering Systems Developer

Remote

Sep 2022 – Jan 2026

- Development of CI/CD pipelines for critical applications using Docker and Kubernetes (K8S).
- DevOps experience in Infrastructure as Code tools for environment configuration.
- Extensive Linux experience managing servers, developing environments, and complex systems.
- Development of Messaging/Queue services using RabbitMQ.
- Implementation of Audit and Archiving Systems with Trino and MinIO.
- Development of resilient Engineering Systems used globally across more than 20 countries.
- Java backend development with SpringBoot and Spring frameworks.
- Rust backend development with Actix-Web and Axum frameworks.
- Python backend development with FastApi framework.

CNPq

Academic Researcher

Joinville, SC

Mar 2021 – Jul 2022

- Development of a Task Scheduler for scenarios of Communicating Tasks on distributed systems in Data Centers, driven by Deep Machine Learning algorithms.
- Simulation environments developed with Python, leveraging libraries such as Pandas, Numpy, TensorFlow, and PyPlot for Data pipelines, visualization and Machine Learning model creation.

Fab Lab Joinville

Project Intern

Joinville, SC

Sep 2020 – Sep 2021

- Promotion of Social Inclusion through Technology, providing opportunities to learn and develop projects through digital manufacturing tools based on the Maker Movement's philosophies.

Universidade Do Estado de Santa Catarina

Programming Languages Class Auxiliary Teacher

Joinville, SC

Jan 2020 – Sep 2021

- New undergraduates Tutoring and Assistance, teaching topics as Data Structures and Algorithms in C/C++.

EDUCATION

Universidade Do Estado de Santa Catarina (UDESC)

Master's Degree in Applied Computing

Joinville, Brazil

Mar 2023 – Feb 2025

- **Honors:**
- **Courses:**
- Dissertation on Provisioning Multi-Component Applications on Cloud-Edge Continuum to Users in high mobility environments.
- Three published articles. Two local conference Presentations.

Universidade Do Estado de Santa Catarina (UDESC)

Bachelor Degree in Computer Science

Joinville, Brazil

Mar 2018 – Aug 2022

- **Honors:**
- **Courses:**
- Final Paper on Data Center Task Scheduling Algorithms.

LICENSES AND CERTIFICATIONS

Introduction to Generative AI

Issued by Duke University (Coursera)

ID: TNAV5H31C7DT

Mar 2025

Managing Machine Learning Projects

Issued by Duke University (Coursera)

ID: LJXW8R5PDYJD

Apr 2025

Kubernetes Basics for DevOps

Issued by KobeKloud (Coursera)

ID: 25XF593IT0H0

Apr 2025

Ansible for the Absolute Beginners

Issued by KobeKloud (Coursera)

ID: JP53ZFV0GY0J

Apr 2025

Exploratory Data Analysis for Machine Learning

Issued by IBM (Coursera)

ID: VSW28NPLJLBL

Apr 2025

Supervised Machine Learning: Regression and Classification

Issued by DeepLearning.AI (Coursera)

ID: QP48Q80JR8R5

Apr 2025

Advanced Learning Algorithms

Issued by DeepLearning.AI (Coursera)

ID: 48PYMCFKL4E1

Jun 2025

Unsupervised Learning, Recommenders, Reinforcement Learning

Issued by DeepLearning.AI (Coursera)

ID: QZ1Z0N018ZGH

Jun 2025

RESEARCH AND PUBLICATIONS

ALBUQUERQUE, Paulo Roberto. Mobility-Aware Provisioning of Service-Composed Applications on Cloud-Edge Continuum With Quality-of-Service Requirements

Published on *Programa de Pós Graduação em Computação Aplicada (PPGCAP-UDESC)*

Jan 2025

SKILLS, LANGUAGES, INTERESTS

- **Languages:** Portuguese (Brazilian) (Native speaker), English (Fluent reading, writing and speaking), French (Basic reading and listening comprehension)
- **Programming Languages:** Rust, Java, Python, C, C++, JavaScript, SQL, Bash
- **Frameworks:** Spring Boot, FastApi, Actix-Web, Axum
- **Tools:** Kubernetes, Docker, GitLab CI/CD, Cargo, Git, Suse Rancher
- **Databases/Messaging:** Redis, Oracle, MinIO, RabbitMQ, PostgreSQL, SQLite, Trino
- **Interests:** Self-Hosting, Free and Open Source Software, Running, Cooking, Writting