

Ricardo da Silva Duarte

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ABOUT

Senior developer with more than 10 years of experience implementing various projects in different environments and technologies areas, working in systems development and maintenance. Experienced Python developer I'm also passionate about software development and everything involved in it: methodologies, tools, devops and so on.

I'm fluent in Portuguese and English and basic Mandarin Chinese. I'm currently learning Mandarin chinese to help the chinese community in my country as a volunteer work.

- Python
- Django
- Javascript
- Typescript
- Vue.js
- Microservices
- Git
- Docker
- DevOps
- Jenkins
- Automation
- CI/CD

EXPERIENCE

Petrobras – Petróleo Brasileiro SA, Rio de Janeiro, Brazil (2007 – Until today) **Software Developer / System Analyst**

Design, development, production deployment and maintenance of various information systems. Leading projects individually, in teams and in collaboration with universities and other partners, using agile methodology. The following are some projects I am/was involved in:

MAP - Monitoring and analysis of research projects.
Technologies involved: Python, microservices, Vue.js.

MANNTIS - Computational Vision Framework applied to the Oil industry. It is used to monitoring underwater footage.
Technologies involved: Pattern recognition, deep learning, docker, microservices, Python, Vue.js.

DEVOPS - Part of a team of selected employees designated to define and apply DevOps concepts and practices throughout our company.

GEONET - Web application for publishing data from well geophysics studies. Geo-navigation and map plotting of oil fields, well trajectories and other data.
Technologies involved: Python, Django, Leaflet.JS.

ICARO (Intensive Computing Reservoir Optimization) - Reservoir optimization system that generates several simulations from an original template, distributes and executes them in company computational clusters.

Technologies involved: HPC, Python, SSH, PBS, TORQUE.

KlibraRMN - Calibration of the permeability of the nuclear magnetic resonance profile. This system allows a user to calculate multiple curves based on math equations to compare with the original well's permeability curve.

Technologies involved: AngularJS 1.x, Python, Django.

STRITA - Django system for reservoir injectivity testing. Visualization of large amounts of data at different scales. Data optimization for the display of animated interactive graphic demonstrating the advancement of liquid injection in different reservoir layers.

Technologies involved: Python, Django.

ARGUS – Django web application designed to monitoring and analysis of oil refinery plants.

Technologies involved: Python, Django.

Fouling Web - Web application for waste accumulation simulator in oil transport equipment subject to thermal changes (heat exchanges). This system is used in refineries and platforms of the company, assisting in the conduct of operation of these units.

Technologies involved: Python, Django, SVG.

SERPRO – Serviço Federal de Processamento de Dados, Rio de Janeiro, Brazil (2005 – 2007)

Software Developer / System Analyst

Design and development of software for Brazilian government in Education area. Our main work was a system for a large government project which goal was "run in every school in the country". This system was developed using Python programming language.

Petrobras – Petróleo Brasileiro SA, Macaé, Brazil (2004 – 2005)

Software Developer

Part of a team designated to solve emergency bugs on software in production environment.

We used to attend software developed in ASP and ASP .NET.

EDUCATION

UNIGRANRIO – Universidade do Grande Rio (Rio de Janeiro, Brazil)

Bachelor of Science (B.Sc.) in Computer Science, 2005

TRAINING

COURSERA

Coding the Matrix: Linear Algebra through Computer Science Applications

UDACITY

Data Science Fundamentals