# HEITOR DE BITTENCOURT

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#### **SKILLS**

Python, Bash, Shell, C++, Git, Docker, DevOps, SSH, Linux, Ubuntu, CentOS, Systemd, XFS, ZFS, Continuous Integration, Continuous Delivery, Observability, Distributed Systems, High Performance Computing (HPC), Open-source, Technical writing, Documentation Writing, Teaching, Troubleshooting, Agile, Scrum.

#### **EXPERIENCE**

Lavanet
Senior DevOps Engineer
Jan 2023 - Present
Remote

- · Member of the DevOps team, maintaining a fleet of bare-metal servers and VMs globally distributed.
- · Onboarded and first person of contact for technical support for clients.
- · Wrote extensive internal documentation about processes, systems and troubleshooting sessions.
- · Misc: Python, Rust, Bash, Terraform, Ansible, Git, GitHub Actions, Caddy, Nginx, Gatus, Opensource, Documentation.

Omnivector SolutionsFeb 2021 - Oct 2022Principal Infrastructure EngineerRemote

· Led the Infrastructure team.

- · Responsible for the product's core architecture, scalability and functionality.
- · Wrote extensive documentation about the products, for end-users and coworkers.
- · Misc: Python, Juju, Bash, Git, GitHub Actions, Open-source, Infiniband, Slurm, Linux, CentOS, Ubuntu, XFS, Systemd, Fluentbit, Prometheus, Grafana, etcd, LXD, REST APIs, Jira, Scrum, inverviewing candidates.

IteraAug 2019 - Dec 2020Python EngineerSão Carlos, Brazil

- · Responsible for the infrastructure.
- · Containerized the backend, frontend and A.I. pipelines, scaling the processing power as needed.
- · Developed backend and REST APIs in Python.
- · Misc: Python, FastAPI, Bash, Docker, Git, RabbitMQ, AWS (EC2, S3), Scrum.

CERN
Aug 2018 - Dec 2018
Researcher
Geneva, Switzerland

- · Data mining of large-scale Physics' datasets.
- · Categorisation of datasets into hierarchical topics.
- · General portal improvements: documentation, glossary, markdown engine, user interface.
- · Misc: Python, Flask, Bash, Docker, Git, HPC, OpenData, OpenSource, ROOT.

University of São Paulo Undergraduate Researcher

Jan 2013 - Feb 2015 São Carlos, Brazil

- · Simulated the evolution of spin systems in a magnetic field stimulated by RF pulses.
- · Developed a GUI using Qt under Python for visualization of magnetic profiles.

· Misc: Python, C++, Cuda, QT, Boost, Nuclear Magnetic Resonance.

#### **EDUCATION**

# University of São Paulo

Feb 2017 - Mar 2021

Master of Science in Physics

São Carlos, Brazil

- · Thesis: Search strategies and phase transition in the Random Boolean satisfiability problem.
- · Link: https://doi.org/10.11606/D.76.2021.tde-02092021-162034

## Helsinki University

Aug 2015 - Jul 2016

Bachelor of Science in Physics

Helsinki, Finland

 $\cdot$  Exchange student.

## University of São Paulo

Jan 2013 - Jan 2017

Bachelor of Science in Physics

São Carlos, Brazil

### PATENTS AND PUBLICATIONS

# PyMR - A Framework for Programming Magnetic Resonance System

2019

 $\cdot$  Patent number BR512019001829-0.

Open data provenance and reproducibility: a case study from publishing CMS open data  $Nov\ 2019$ 

· Online at https://doi.org/10.1051/epjconf/202024508014

## Basic Python Course textbook - in Portuguese

2016

· Online at https://curso.grupysanca.com.br/