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Recent Work Experience

Data Engineer at 42 Technologies (Mar 2023 - Now)

Project/Product: 42 Technologies is a startup aiming to solve the big problem of data unification and reporting in the retail space, by offering an ample variety of integrations and great UX. I work there building data integrations and pipelines, along with the infrastructure to run them.

Tasks: My contributions include:

- Several custom data pipelines built with PySpark on GCP Dataproc
- Integrations with external systems using Typescript on Node
- Custom Terraform modules for common infrastructure needs
- Identification of several security issues and implementation of best practices
- Deployment of several services using Helm on AWS Fargate

Toolset: PySpark, GCP, AWS, Terraform, Kubernetes, Helm, Node, Typescript

Site Reliability Engineer at Roon Labs (Jun 2020 - Mar 2023)

Project/Product: Roon Labs aims to make the ultimate music player for audiophiles. I worked there mostly on the infrastructure that serves the cloud services and on the data pipelines that deal with music metadata. I worked there on rebuilding the infrastructure using Kubernetes on GCP, managing our PostgreSQL and Scylla databases and overhauling the GitOps workflow and the developer experience around it.

Tasks: I was able to work on a great variety of different tasks, since we were a particularly small team replacing the old click-ops Docker Swarm infrastructure with a (mostly) immutable one based on Kubernetes and GitOps.. Specific tasks included:

- Building and maintaining several parts of the cloud infrastructure with Terraform;
- Designing and implementing an overhauled developer experience based on GitOps and ArgoCD, making it easy for developers to follow best practices;
- Building and automating the operations of our Postgres and Scylla databases;
- Creating custom Grafana dashboards and alerts for monitoring infrastructure and services, following the SRE golden signals approach.

Toolset: Kubernetes, Helm, Terraform, GCP, ArgoCD, PostgreSQL, ScyllaDB, Grafana, AWS

Software Engineer (Backend and DevOps) at Novidá (Sep 2015 - Jun 2020)

Project/Product: Novidá is a startup using indoor positioning to optimize low-automation processes in industry and facilities. I started working there right at the beginning, in the Indoor Positioning project, and then moved on to the Process Optimization project.

Tasks: In both projects, I worked on the back-end, mostly designing the APIs and the core algorithms. I was also responsible for the Android client library of the indoor positioning system. Specific tasks included:

- Building a signal processing pipeline, including adaptive Bayesian filtering and machine learning.
- Designing and implementing RESTful APIs using Spring Boot.
- Designing a heuristic solver for a particularly intractable combinatorial optimization problem and implementing it in efficient Cython.
- Monitoring, benchmarking and optimizing production systems.

Toolset: Python, Node, Docker, Git, SQL, Kubernetes, Azure, AWS, Domain-Driven Design, Microservices

Personal Projects

OperaPlan

A library for operations resource planning and optimization in Java. Built upon state of the art heuristics and several experimental tweaks for improving performance on real datasets.

Pytimeset

A library for dealing with continuous time sets in Python. Provides efficient set arithmetics powered by Cython.

Education

Bachelor's Degree in Computer Engineering at University of São Paulo (POLI-USP)
2013 – 2017
Graduation project: Decision Support for Operations Management - A software system to help measure relative performance of resources and strategies on an operation and suggest optimal resource allocation based on previous performance.

Languages

Portuguese (native)
English (fluent/proficient)
German (intermediate)