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Work History

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

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. Successfully used in production.
- Using Docker and AKS (Kubernetes) to deploy systems on Azure.
- Monitoring, benchmarking and optimizing production systems.

Toolset: Python, NodeJS, Docker, Git, SQL, Kubernetes, Azure, AWS, Domain-Driven Design (DDD), Microservices Architecture.

Software Engineering Intern at Software Architecture Lab - USP (Apr 2014 - Sep 2015)

Project/Product: Most of my time there was developing a system called eNOVA24h for the Nutrition department of the University. The objective of the project was to support a new research methodology, which included collecting data from patients, cross referencing them with a large nutritional database and creating useful automated reports for the research at the department.

Tasks: I was responsible for the development of several vertical (full stack) modules of eNOVA24h, including most of the reporting. Specific tasks included:

- Designing and building task-oriented use cases and web interfaces in .NET.
- Designing a denormalized data model to better support the reporting modules.
- Working with the researchers to design the data visualization in the reports.
- Deploying the system to IIS servers at the University.

Toolset: C#, ASP.NET MVC, Microsoft SQL Server, Python, Ansible, Test-Driven Development (TDD), Layered Architecture.

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 the resources and strategies on a operation and suggest optimal resource allocation based on previous performance.

Languages

Portuguese (native)

English (fluent/proficient)

German (intermediate)