Wanderson Ferreira

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personal blog page

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Objectives

Build products that last the test of time.

Brief Summary

Despite my academic background, I have been working with software and algorithm development since 2010. I've been leading projects in supply chain and financial industries using Python, Golang, Scala, and mostly Clojure.

Education

2016–interrupted | **MSc in Electrical Engineering, Universidade de São Paulo, Brazil.**

Thesis: Deep Learning: Inspecting Restricted Boltzman Machines
Supervisor: Dr. Prof. Emilio Del Moral Hernandez
Concentration: Computer Science, Scientific Programmind and Data Science.

2010–2015 | **Bachelor of Science in Geophysics, Universidade de São Paulo, Brazil**

Thesis: Global Optimization for AVO inversion in unconsolidated sediments.
Supervisors: Dr. Liliana Diogo and Dr. Fred Hilterman (UH)
Programming Languages: Fortran and MATLAB.
Concentration: Scientific Programming

2014–2015 | **Exchange Program, Exploration Geophysics, University of Houston, US**

Thesis: Synthetic Seismogram modeling package in MATLAB
Supervisor: Dr. Fred Hilterman
Concentration: Scientific Programming

Open source projects

Emacs Lisp | Maintainer of helm-spotify-plus. Contributor to pomidor, organic-green, and many fixes in other projects

Clojure | Regular contributor to spec-tools, and small contributions in other projects e.g. reitit, depstar, clara-rules.

More details on github profile.

Professional Experience

2020–current **Contractor Senior Clojure Developer - Remotely Boston**

- Developed real-time data pipelines for esports games at App Sauce (ClojureDesign Podcast)
- Developing document custody solution for clinical trials at Reify Health
- **Tech Stack**: Clojure, Postgresql, Kafka, and AWS services.

2019–2020/Nov **Principal Software Engineer at Captalys**

- Decided to expand the rationale of Credit Platform to other business units
- Designed the architecture for services on Credit Management
- Designed the architecture for services on Credit Securitization
- Supported the adoption of Scrum and new hires for Product positions
- Supported new product implementations
- Supported team growth e.g. from 5 to 50 developers in 15 months.
- **Tech Stack**: Clojure, Python, Kubernetes, Postgresql, and AWS services.

2017/Dec–2019/Jan **Lead Software Engineer at Captalys**

- Invited to create and lead a Tech team to build a Credit Platform
- Invited to participate in the Partnership program of the company
- Developed public APIs to enable partners to provide credit in their ecosystem
- Designed Platform architecture and main components
- Worked closely with Product team to deliver Tomatico - Credit for PME
- **Tech Stack**: Clojure, Python, Kubernetes, PostgreSQL, and AWS Services

2017–2017/Nov **Tech Lead ML Engineer at Captalys.**

- Created Data Science team from scratch
- Implemented Random Forest models to score Hospitals based on SUS data
- Implemented Descriptive Analytics Platform
- **Tech Stack**: Python, Scala, Apache Cassandra and MySQL.

2016–2017/May **Tech Lead at TEVEC Metodologias e Sistemas.**

- Designed and Implemented Machine Learning framework
- Ease the work for Data Scientist to develop and deploy models
- **Tech Stack**: Python, MySQL, Tensorflow, Theano, MongoDB.

2016/Fev–2016/Nov **Analyst in Mathematical Modeling at TEVEC Metodologias e Sistemas.**

- Member of Research team in Machine Learning focusing on supply chain
- Developed algorithms e.g. clustering, and decision trees
- Developed several neural network architectures for timeseries prediction
- **Tech Stack**: Python, and MySQL.

Scholarships and Awards

2017	Data Science Game 2017 World Finalist
2015	SEG/ExxonMobil Student Education Program Awards - SEP
2015	CNPq - Undergraduate Scholarship
2013–2014	CAPES - Brazilian Mobility Program Scholarship
2011-2012	CNPq - Undergraduate Scholarship
2010-2011	USP Rectory Scholarship for Undergraduate.

Publications and Abstracts

- Wanderson Ferreira and Fred J. Hilterman. Global optimization for avo inversion - a genetic algorithm using a table-based ray-they algorithm. *EAGE Conference Exibihition 2016 in Vienna.*, 2016
- Wanderson Ferreira Jonathan Mariano and Francisco Hiodo. Development of lock-in resistivimeter for measuring resistivity and induced polarization under high electrical noise. *EAGE Conference Exibihition 2016 in Vienna.*, 2016
- Wanderson Ferreira and Wladimir Shukowsky. Estimation of total magnetization direction using helbig's method: A comparative study using the reduction to the pole operator. *13th International SBGf Congress*, 2013
- Wanderson Ferreira and Alexandre Correia e Mrtins J.V. Study of the thermodynamic phase of hydrometeors in convective clouds in the amazon basin. *AGU Fall Meeting, San Francisco, California.*, 2012
- Bruno Catandi Alexandre Correia, Wanderson Ferreira Fábio Frigeri, and Paulo Artaxo. Serena project: Studying aerosol interactions with cloud microphysics in the amazon basin. *AGU Fall Meeting, San Francisco, California.*, 2012