

Vinicius Carqueijo Mesel

Investment Advisory and Software Engineering

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Skills

Software development, Machine Learning, Mathematical Modelling,, Software Engineering, Data Science, Data Visualization and Data Engineering.

JUNE 2018 - AUGUST 2018

Emerald Gestão de Investimentos (a Banco Safra Company), **São Paulo** - MFO Intern and Software Engineer

- Responsible for automating the reports pipeline
- Development of data scrapers from Investment websites
- Development of Excel Macros
- Creation of Python, R and PowerBI pipelines consuming from MongoDB collections

JUNE 2018 - AUGUST 2018

Independent Consultant at WeMind, **São Paulo** - Machine Learning and Blockchain Engineer ()

- Responsible for the development and management of the smartcontracts
- Development of middlewares for blockchain and external APIs
- Assembly Virtual Machine Architecture Development

MARCH 2018 - JUNE 2018

Santo Digital, São Paulo - Machine Learning Engineer

- Responsible for the development of image recognition systems for health care plans
- Development of deep learning models using Google Technologies such as Tensorflow, TensorBoard and Google Cloud
- Development of tools and APIs using Python and Golang

JANUARY 2017 - MARCH 2018

Cognitivo.ai, São Paulo - Software engineer

- Development of machine learning algorithms and big data processing pipelines
- Creation of better predictors for recommendation algorithms
- Big Data São Paulo, Rio de Janeiro and Recife Meetup Organizer

Education

JANUARY 2017 - PRESENT

FIAP, São Paulo - Computer Engineering

Bachelor in Computer engineering.

JANUARY 2017 - FEBRUARY 2017

Universidade de São Paulo – Introduction to Probability – Summer Course

A summer course focused on the applications on the probability theory on data modelling and statistical problems

JANUARY 2017 - FEBRUARY 2017

Universidade de São Paulo – Bioinformatics – Summer Course

A summer course focused on the applications of bioinformatics in the academia, showing data modelling for biological systems.

JANUARY 2017 - FEBRUARY 2017

USP and Instituto Butantan – Bioinformatics Undergraduate Researcher

Research on the modelling of prostate cancer cells (LNCaP) and *Schistosoma mansoni* life cycles. Publication of papers and presentation of articles.

Awards

- Best conference paper - **Colégio Dante** - October, 2017

Published Papers and Scientific Contributions

- Scientific Papers:
 - J R Vasconcelos E., C Mesel, V., F daSilva, L., S Pires, D., M Lavezzo, G., S A Pereira, A., S Amaral, M., Verjovski-Almeida, S.; Atlas of *Schistosoma mansoni* long non-coding RNAs and their expression correlation to protein-coding genes, Database, Volume 2018, 2018, bay068, <https://doi.org/10.1093/database/bay068>
 - daSilva Lucas F., Beckedorff Felipe C., Ayupe Ana C., Amaral Murilo S., Mesel Vinícius, Videira Alexandre, Reis Eduardo M., Setubal João C., Verjovski-Almeida Sergio; Chromatin Landscape Distinguishes the Genomic Loci of Hundreds of Androgen-Receptor-Associated LincRNAs From the Loci of Non-associated LincRNAs; *Frontiers in Genetics*, Volume 9, 2018, 132
 - Mesel Vinícius, daSilva Lucas F., Beckedorff Felipe C., Setubal João C., Verjovski-Almeida Sergio; Machine-Learning pipeline to predict relevant RNA motifs that allow the physical association between lincRNAs and androgen receptor
- Books:
 - Contributed to source code development on: *Machine Learning: A Practical Approach on the Statistical Learning Theory* written by: de Mello, Rodrigo Fernandes, Ponti, Moacir Antonelli

Volunteer Work

- Volunteer Speaker at Python Conferences (Python Brasil, GruPy São Paulo, The Developers Conference)
- Associate at Garoa Hacker Clube
- Development of a job listing website, called PyJobs, that helps Pythonistas find their next job