Frederico José Ribeiro Pelogia

Computer Engineering Student

Contact Information

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fpelogia.github.io

Address:
Av. Presidente Juscelino Kubitschek, 5490. Ap. 98
São José dos Campos - SP

Languages

Portuguese - Native

English

- Comprehension
- Writing
- Speaking

Further Education

- Neural Networks and Deep Learning (DeepLearning.AI - Coursera)
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (DeepLearning.AI - Coursera)
- Data Science Math Skills (Duke University - Coursera)
- Managing Machine Learning Projects with Google Cloud (Google Cloud - Coursera)

Objectives

To apply knowledge and skills in practice, as well as gain experience and improve my skill set.

Experience

Embraer - IT Internship - Support & Services **2021 - Dec. 2022**

- Data analytics - Executive Aviation
- Support internal applications (Node / Angular / Python)
- Database Maintenance (postgreSQL)
- Power BI and Power Automate

Undergraduate Research (PIBITI) **2021 - 2022**

- Trend analysis of COVID19 in the state of São Paulo
- Mathematical and computational modelling of epidemics

Sala Planejada tool **2020 - 2022**

- Tool for planning classrooms considering social distancing between students
- Collaboration with researchers in the fields of applied mathematics and operations research

SABER-SUS Website Development **2020 - 2022**

- Development of a website for clinical practice guideline recommendations for the treatment of chronic diseases: adaptation to context of the SUS and reliable information dissemination
- Agile Software Development / Virtual Private Server (VPS)

Undergraduate Research (FAPESP) **2019 - 2020**

- Optimization Methods / Neural Networks/ Fraud Detection

Education

Federal University of São Paulo (UNIFESP)

2022 - Now	M.Sc. in Biomedical Engineering
2018 - Now	Computer Engineering
2018 - 2021	Interdisciplinary Bachelor in Science and Technology

Publications

COVID-19 Trend Analysis in Mexican States and Cities
43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2021

Study of the COVID-19 pandemic trending behavior in Israeli cities
IFAC Papers Online - 11th IFAC Symposium on Biological and Medical Systems BMS 2021

A support tool for planning classrooms considering social distancing between students
Computational and Applied Mathematics (2022)

Short-term prediction of COVID-19 deaths in Argentina
IFMBE (International Federation for Medical and Biological Engineering) Proceedings - CLAIB 2022 (Accepted)

Skills

Programming Languages:

- C / C++
- Python
- MATLAB
- Java
- Javascript + NodeJS
- HTML + CSS + PHP

Capabilities:

- Design and analysis of algorithms
- Database design and implementation (mySQL, postgreSQL)
- Power BI and Power Automate
- Use and maintenance of Linux based systems.
- Production of reports and documents with LaTeX
- Microsoft Office