Rodrigo Bressan

Software Developer and Data Scientist

Experience on building solutions for both web and mobile platforms (Android, iOS and hybrid) using Machine Learning and Computer Vision. I am enthusiastic about learning new things and sharing the knowledge with the people around me. My goal is to always create well written, readable and tested code. I also enjoy contributing to open source (mostly on my GitHub) and writing on my personal blog.

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PROFESSIONAL

Federal Institute of São Paulo, Brazil – *Software Engineer and Data Scientist*

JAN 2018 - APR 2020

Building web-based solutions using Data Science and Machine Learning techniques for Healthcare related projects and biometrics. Major development of pipelines for CI/CD. Projects sponsored by the Bill & Melinda Gates Foundation, the Brazilian Ministry of Health and the National Council for Scientific Development.

Cleevio, Prague, Czech Republic - *Android Developer*

MAY 2016 - DEC 2017

Development of Android applications for European market, with over 6 million monthly active users. Introduced Test Driven Development (TDD) methodologies along with Continuous Integration and Deployment of applications into app stores, reducing time spent on build and release of new artifacts.

Movile, Brazil — *Android Developer*

JAN 2014 - JUN 2015

Building mobile solutions for Brazilian and Latin America cellphone carriers. Integration with third-party APIs, web services over REST, usage of Android core APIs and payment gateways.

EDUCATION

Federal Institute of Education, Science and Technology of São Paulo, *Technologist/Associate in System Analysis and Development* (2015 - 2019)

Extracurricular classes on Data Science and Artificial Intelligence. Major exposure to popular Deep Learning libraries and tools, such as Python, Pandas, ScikitLearn.

University of Campinas Technical College, *Technician in Informatics and Data Processing* (2011 - 2013)

PERSONAL PROJECTS (MORE ON MY GITHUB)

Face2Data (*github.com/rodrigobressan/face2data*)

Extract meaningful information from a person face in less than a second using a pretrained multi-output Deep Learning model using the UTKFace Dataset. Tools: Python, Flask, OpenCV, Keras, PyTest and deployed on Heroku.

Entity Embeddings (*github.com/rodrigobressan/entity_embeddings_categorical*)

Discover relevant information about categorical data with entity embeddings and Neural Networks with Keras. Utility tool for the preprocessing, training and extraction of entity embeddings through Neural Networks using the Keras framework.

TMDB Android App (*github.com/rodrigobressan/android_tmdb_clean_architecture*)

Showcase of clean architecture concepts along with Continuous Integration and Development for modular Android applications. Tools: Android, Kotlin, MVP architecture, RxJava, Dagger (Dependency Injection), Mockito and Travis for CI/CD.

DigiPathos (*github.com/rodrigobressan/digipathos*)

Wrapper for the DigiPathos dataset, in order to list and download public data from plant pathologies provided by Embrapa (Brazilian Agricultural Research Corporation).

SKILLS

Programming
Python (proficient)
Java (proficient)
Kotlin
HTML5
CSS
Javascript (vanilla and jQuery)
Databases (Postgres, MySQL)

Methods
Agile Development
Clean Code
Test Driven Development (TDD)
Data Visualization
Continuous Integration and Delivery
Containerization
Git version control

Technologies
Flask and Django
Spring Boot
Plotly and D3.js
Docker
Amazon Web Services (AWS)
Jenkins and GitLab
GitHub
Keras and TensorFlow
Computer Vision (OpenCV, DLib)
Android (with Java and Kotlin)

Other
Portuguese (Native)
English (Proficiency)
Italian (Intermediate)
Spanish (Basic)

Awards
- Best Work Award on Brazilian National Institute for Space Research Applied Computing
- Second place at "Hackathon on Municipal Management in the city of São Paulo"