JÚLIO MIGUEL BRAZ DA COSTA SILVA

M.Sc Electronics and Telecommunications Engineering

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📍 Aveiro, Portugal

WORK EXPERIENCE

R&D Engineer - Data Analysis - (Full/Hybrid) Remote
Wavecom

📅 Jan 2021 – Present Time   📍 Aveiro, Portugal

BigHPC https://bighpc.wavecom.pt/
- Research and Development of a monitoring solution for High Performance Computers. (Full pipeline of collecting metrics, data processing, data clean,data storage, data retention and data visualization)
- Moderator of the Webinar "Is HPC ready for "Big" Data Storage?"
- Work with partners from different different nationalities.

Public Network Monitoring
- Research and Development of an architecture capable of monitoring networks.
- Creation of dashboarding visualizations for clients that required both the status and the history of their network.

EDUCATION

Master Degree in Electronics and Telecommunications Engineering
University of Aveiro

📅 2014 – 2020   📍 Aveiro, Portugal

Master Thesis - 19/20.
University of Aveiro

📅 2019-2020 (1 year)   📍 Aveiro - Portugal

Recovery and Identification of Moments in Images
- Development of a python automatic image retrieval system capable of associating images to moments described in text.

Computer Vision Project
University of Aveiro

📅 2019 (3 months)   📍 Aveiro - Portugal

Automatic License Plate Detector
- Development of a prototype system capable of validating pictures of license plates in real time.

PUBLICATIONS

📄 **Article**
- Ricardo Ribeiro, Júlio Silva (2020). "UA . PT Bioinformatics at ImageCLEF 2020 : Lifelog Moment Retrieval Web based Tool".

TECH SKILLS

Python | Docker Compose | PromQL
SQL | TimescaleDB | Docker | Linux
Elasticsearch | Kibana | Grafana
Postgres | Prometheus | Promscale
TimescaleDB | Fluentbit | HPC | JSON
MATLAB | Singularity | Gitlab | bash
vmagent | vmalert | victoriametrics

PYTHON LIBRARIES

Seaborn | Pandas | PandasSQL | NumPy
Psutil | TensorFlow | Keras | ImageAI
Matplotlib | OpenCV | SpaCy | SQLalchemy

KNOWLEDGE / INTERESTS

Metrics Extraction/Processing | Databases
Pattern Detection | Data Science
Automatization of tasks | Data Visualization
Data Processing | Computer Vision
Scene Recognition | Image Processing
Image Classification | Deep Learning
Neural Networks | Feature Extraction
Natural Language Processing
Machine Learning | Object Detection

STRENGTHS

Self-Taught | Communication
Analytical Thinking | Research | Teamwork
Attention to detail | Hard-Working
Eager to learn | Innovative Thinking
Easy to work with | Patience

LANGUAGES

Portuguese (Native) | English (Fluent)

DRIVER LICENCE

B1 | B