Diogo Gregório

++351927134379 diogogregorio2511@gmail.com Lisboa, Portugal Diogo Gregório

Summary

I am a twenty-four year old man that just finished an internship and is looking for his first full-time job opportunity. I believe I excel at simplifying tasks, organization and teamworking. I am responsible, punctual, creative and enjoy interacting and collaborating with individuals of all ages and backgrounds.

Education

BS **Instituto Superior Técnico**, Electrical and Computer Engineering — Sept. 2018 to May 2021

- Average Grade: 12
- **Coursework:** Computers, Telecomunications, Eletronics, Control and Energy.

MS **Instituto Superior Técnico**, Electrical and Computer Engineering — Sept. 2021 to Nov. 2024

- Average Grade(without thesis): 15
- **Coursework:** Control, Robotics and AI.

Experience

Avanade, Data Analyst, Intern — Lisbon, Portugal September 2024 to Aug. 2025 12 months

- Santander Project – Developed and optimized Python scripts and SQL queries to extract, transform, and load (ETL) data from multiple sources into visualization tables.
- Designed and modified table structures to improve data accessibility and performance.
- EDP Project – Supported the planning and documentation for the migration of Azure resource groups and associated resources from a centralized corporate Data Lake to business-unit-specific Datahubs.
- Analyzed resource configurations and dependencies to determine “Lift and Shift” feasibility versus required process redesigns.
- Investigated and documented pipelines in Azure Data Factory, Databricks notebooks, and data architectures in Confluence.
- Evaluated integration processes involving AWS, Google Cloud, Azure, and Oracle sources; reviewed Oracle GoldenGate consolidation processes.

Projects

Machine Learning — Sep. 2021 to Nov. 2021

- Four task project, made of two regression problems and two classification problems with the objective of finding the best model for an independent test set.
- The regression score was measured based on the mean squared error and the classification score was based on the balanced accuracy.
- Used Python

Multivariable, Nonlinear and Optimal Control — Feb. 2022 to Apr. 2022

- Designed a state feedback controller for a linear system described by a state model, including a state observer.
- Test the design through simulations performed in SIMULINK.
- Test the design in the real system using SIMULINK and replacing the block that simulates the plant (inverted pendulum) by blocks connectedto A/D and D/A converters that interconnect SIMULINK computations with the physical system in real time.

Autonomous Systems May 2022 to Jun. 2023

- The project involved the computational implementation of an algorithm, its integration into a mobile robot, and conducting systematic tests to evaluate its performance with respect to the project objectives, from a quantitative and a qualitative point of view.
- Used ROS

Entrepreneurship, Innovation and Technology Transfer Feb. 2022 to Jun 2022

- Developed a mock start-up with the objective of creating high fidelity maps of underground mines by using UAVs with advanced communication and sensorial technology to bring the mining operations theater into industry 4.0.

Mobile Networks and Internet of Things Feb. 2023 to Apr. 2023

- Developed a small IoT project for fire detection and air quality monitoring.
- The system can be remotely monitored and controlled by the system administrator though an Android App, since the sensors and actuators are connected to the Internet.

Optoeletronics Project Feb. 2023 to Apr. 2023

- Studied a distance measuring sensor through analyzing the results against specific targets.
- Programmed a system consisting of a microcontroller, a laser emitter and a laser transmitter, to send information and verify the error rates under different conditions.
- Used microcontrollers, boards and several types of sensors.

Thesis - Personalized Interaction Models of Socially Assistive Robots for Monitoring and Guiding Rehabilitation Exercises Sep. 2023 to Nov. 2024

- Model the dynamics of people for adaptive rehabilitation coaching systems.
- This involves designing and training the models, fine-tuning hyperparameters, and evaluating their performance.
- Using Python, Tensorboard in a Anaconda environment.

Additional Experience And Awards

Maths Tutoring (2023 - 2024): Did a part-time tutoring high school maths while finishing my master degree.
Microsoft Azure Data Fundamentals (Jan 22, 2025): DP-900 certification.
Microsoft Azure Fundamentals (Sep 24, 2024): AZ-900 certification.

Technologies

Languages: Python (pandas, NumPy), SQL, Simulink, Arduíno, LaTex, C++, C, C#, MATLAB.

Software: Visual Studio, Anaconda, MobaXterm, Arduino IDE, MS Visual, MATLAB, SimuLink, Tensor, SQL Server, Azure SQL Database, Azure DevOps, Azure Portal, Azure Data Factory, Azure Databricks, Confluence, Oracle GoldenGate, Cloud Storage Services (AWS S3, GCP Cloud Storage, Azure Blob), Azure DevOps.