

Diogo Costa e Silva

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EDUCATION

University of Minho <i>Integrated Master's in Engineering and Management of Information Systems</i>	Guimarães, Portugal <i>Sep. 2016 – Jun. 2023</i>
Portuguese School of Mozambique <i>High School in Science and Technology</i>	Maputo, Mozambique <i>Sep. 2013 – Jul. 2016</i>

EXPERIENCE

Programa Contacto Sonae – Internship at MC Digital <i>MC Digital – Platform Management Team</i> <ul style="list-style-type: none">– Participation in weekly sprints with task management using Jira and technical documentation in Confluence.– Administration of Linux systems, focusing on server maintenance, user management, file system operations, and task automation via Ansible and Bash scripting.– Infrastructure provisioning in Azure using Terraform, including app registrations, Databricks clusters, containers, external locations, and secret scopes.– Configuration of environments in the Cloudera Data Platform, creating schemas in Hue and access policies in Ranger across multiple environments.– Technical support to development teams, solving permission issues, ODBC connection errors, application access problems, and job execution issues.	Sep. 2024 – May 2025 <i>Maia, Portugal</i>
Internship at Mozaboot <i>PHC Partner Company</i> <ul style="list-style-type: none">– Integration into a small technical team focused on learning the PHC ERP, including its architecture based on .NET and Microsoft SQL Server.– Research on the PHC Artificial Intelligence module, identifying use case scenarios and value propositions for real clients.– Support in preparing a business presentation to a client, highlighting AI's potential to automate processes and enhance data analysis.	Feb. 2024 – Mar. 2024 <i>Maputo, Mozambique</i>
Research Grant at ISISE <i>University of Minho</i> <ul style="list-style-type: none">– Collaboration on the REV@CONSTRUCTION project, focused on collecting and analyzing data from optical sensors embedded in road pavements.– Setup and configuration of a Hadoop cluster (1 master, 3 workers) in a Linux environment, enabling distributed data storage and processing.– Automation of file transfer via PowerShell + SFTP between Windows systems and the Hadoop cluster.– Development of Python scripts to ingest and structure data into bronze tables as part of a Delta Lake architecture.– Exploration of tools like Jupyter Notebook and Apache Zeppelin in a distributed environment for interactive data analysis.– Acquired strong practical skills in Linux administration, Big Data, and Hadoop ecosystem tools.	Feb. 2022 – Jun. 2023 <i>Guimarães, Portugal</i>

TECHNICAL SKILLS

Programming and Scripting Languages: Python, JavaScript, SQL, HTML/CSS, PowerShell, Bash, Zsh
Frameworks and Libraries: Node.js, Spark, Pandas, Matplotlib, Scikit-learn, Seaborn
Infrastructure and Cloud Tools: Terraform, Azure, Databricks, Docker, Ansible
Big Data Platforms and Ecosystems: Hadoop, Hive, Hue, Ranger, Cloudera Data Platform, Delta Lake
Databases: Microsoft SQL Server, MySQL
Development Environments and Operating Systems: Linux, VS Code, Jupyter, Zeppelin

LANGUAGES AND SOFT SKILLS

Languages: Portuguese (native), English (fluent), Spanish (basic)
Soft Skills: Effective communication, teamwork, problem-solving, autonomy, proactivity, continuous learning

VOLUNTEERING

Food Bank Against Hunger (Porto)

Sep. 2024

Porto, Portugal

Volunteer — Social Action

- Assisted in receiving, sorting, and distributing food to families in need.

Matosinhos City Council

Nov. 2024

Matosinhos, Portugal

Volunteer — AMMA - Matosinhos Environment

- Participated in invasive species removal and native tree planting initiatives.