

Cristiano Nicolau

Data Scientist | Junior Developer

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EXPERIENCE

Student Researcher

Feb 2025 - Present

CIDMA - Universidade de Aveiro

Aveiro

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

Backend Developer

Jul 2024 - Sep 2024

Devlop

Aveiro

- Backend development in .NET and C#, focusing on server logic and API design/implementation.
- Integration of components, backend performance optimization, and scalability improvements.
- Implemented and managed MySQL databases. Used GitHub Projects for project management and collaboration.

Full Stack Developer

Jul 2023 - Sep 2023

Tectank

Viana do Castelo

- Developed a pool monitoring application, integrating a ReactJS front-end with the API and creating intuitive interfaces.
- Improved web services API using RESTful practices, optimized data exchange, and implemented CRUD operations in the SQL database.

EDUCATION

University of Aveiro

Aveiro, Portugal

Master's in Data Science

Sep 2024 - Present

University of Aveiro

Aveiro, Portugal

Bachelor's in Software Engineering

Sep 2021 - Jun 2024

PROJECTS

Wish - Where-is-Home | *ReactJs, Git, Django, GeoServer, QGis, PostgreSQL, PostGIS, Docker*

- Real estate platform focused on property analysis and quality of life in the region
- Developed backend and database, including data processing and structuring

TravelEase | *HTML, CSS, JS, MySQL, Spring Boot, Docker*

- Ticket buying and selling system with unit and integration tests
- Implemented database and API

Digital Shift | *Pandas, NumPy, beautifulsoup4, Seaborn, Matplotlib, Requests, Streamlit, scikit-learn*

- Analyzed evolution of products and features in Portuguese e-commerce platforms using historical data from Arquivo.pt
- Applied ELT (Extract, Load, Transform) practices

AskSQL | *Python, Streamlit, Transformers*

- Transforms natural language into SQL queries

TECHNICAL SKILLS

Technologies & Tools: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, R, Git, Docker, Jira

Frameworks & Libraries: React, Node.js, Flask, Spring Boot, FastAPI, Pandas, NumPy, Scikit-learn, TensorFlow, BeautifulSoup, Spider, Spark

Languages: Portuguese (Native), English