



António Pedro Viçoso Correia

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Date of birth: 22/12/1997 **Nationality**: Portuguese

ABOUT ME

My name is António Correia, a 26-year-old Portuguese with programming and technical support knowledge. I am currently seeking a challenging and rewarding position in the field of Python programming, where I can leverage my skills and knowledge to contribute to innovative projects and dynamic teams.

With a solid foundation in Python programming, complemented by my experience as a certified Python Associate Programmer (PCAP), I possess a comprehensive understanding of Python syntax, data structures, object-oriented programming, and problem-solving techniques. My previous roles have equipped me with the ability to manage complex technical issues, provide advanced support, and train new team members, all of which have honed my analytical and communication skills.

I am particularly drawn to opportunities that allow me to apply my expertise in Python to real-world problems, collaborate with like-minded professionals, and continue growing my technical capabilities in a stimulating environment.

WORK EXPERIENCE

GALP Energy, SGPS, S.A

City: Santarém | **Country**: Portugal

[01/06/2019 – 30/09/2019]

Gas station operator

Although this position was only temporary work, I developed the following skills:

Efficiently managed daily operations at the gas station, including customer service, fuel dispensing, and cash handling.

Played a key role during the fuel crisis of 2019, ensuring the station remained operational and service levels were maintained under high-pressure conditions.

Coordinated with suppliers and logistics teams to manage fuel inventory, ensuring adequate supply despite disruptions.

Implemented measures to streamline service and reduce wait times, maintaining high customer satisfaction during peak demand periods.

Assisted in maintaining safety standards and protocols, including handling hazardous materials and emergency procedures.

Developed strong problem-solving skills, addressing customer complaints and operational challenges promptly and effectively.

Recognized for reliability and dedication during the crisis, demonstrating resilience and adaptability in a highly dynamic and stressful situation.

NOS SGPS

City: Lisbon | **Country:** Portugal

[19/11/2019 – Current] **Call center agent**

As a Call Center Operator at NOS SGPD, I play a crucial role in providing specialized technical support for telecommunications equipment.

My main responsibility lies in providing efficient assistance to specialized technicians, ensuring swift and accurate resolution of issues related to TV, NET and VOIP equipment and also telephone system configuration.

In addition to providing direct support, I play an active role in training new team members, sharing my knowledge and experience to ensure operational excellence and continuous team development.

As an integral member of a dedicated advanced support team, I am constantly involved in resolving critical cases and addressing dissatisfied customers. My ability to handle challenging situations and find effective solutions directly contributes to maintaining customer satisfaction and the company's reputation in the market.

EDUCATION AND TRAINING

[16/09/2003 – 15/06/2007] **Primary Education**

Marinhais Primary School

City: Marinhais | **Country:** Portugal |

[15/09/2007 – 15/06/2012] **Lower Secondary Education**

Marinhais Basic School 2 3

City: Marinhais | **Country:** Portugal |

[15/09/2012 – 15/06/2016] **Secondary Education**

Benavente Secondary School

City: Marinhais | **Country:** Portugal |

[15/09/2016 – Current] **Higher Education**

University of Lisbon - ISEG (Lisbon School of Economics and Management) <http://www.iseg.ulisboa.pt>

City: Lisboa | **Country:** Portugal | **Field(s) of study:** Economy | **Final grade:** 13.6

Completed 2 out of 3 years of coursework towards a Bachelor's Degree in Economics.

Acquired in-depth knowledge in key areas such as Microeconomics, Macroeconomics, Statistics, Econometrics, Economic Theory and Math.

Gained proficiency in quantitative methods and their application to economic analysis and problem-solving.

Developed strong analytical and critical thinking skills, with a focus on economic data interpretation and policy evaluation.

Engaged in collaborative projects and case studies that enhanced teamwork and communication abilities.

Suspended studies in June 2017 due to personal reasons, with the intention of resuming and completing the degree in the future.

[19/10/2023 – 28/02/2024]

PCAP™ – Certified Associate Python Programmer

Pearson VUE: Authorized Pearson VUE Testing Centers + OnVUE Online

Proctoring <https://pythoninstitute.org/pcap>

City: Online | **Field(s) of study:** Python Programming language

Skills covered:

- Proficient in Python Programming: Demonstrates a strong understanding of Python syntax, data types, control structures, and functions.
- Problem-Solving Skills: Capable of solving complex problems using Python programming techniques and algorithms.
- Object-Oriented Programming (OOP): Understands and applies OOP principles such as encapsulation, inheritance, and polymorphism.
- Data Manipulation: Competent in handling and manipulating data structures like lists, tuples, dictionaries, and sets.
- File Handling: Able to read from and write to files, and manipulate file contents using Python.
- Exception Handling: Knowledgeable in handling exceptions gracefully to ensure robust and error-free code execution.
- Modular Programming: Proficient in creating and using modules to organize and modularize Python code for better maintainability and reusability.
- Basic Database Operations: Familiar with basic database operations using Python libraries such as SQLite or connecting to other database systems.
- Web Development Basics: Understanding of web development concepts using Python frameworks like Flask or Django.
- Test-Driven Development (TDD): Familiarity with writing test cases and implementing test-driven development practices to ensure code reliability and maintainability.
- Version Control: Experience with version control systems like Git for managing and tracking changes in code projects.
- Documentation: Ability to document code effectively, including writing clear comments and docstrings for better code readability and maintainability.
- Collaboration: Capable of collaborating effectively in team projects, contributing to code reviews, and communicating technical concepts clearly to team members.

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

LISTENING C2 READING C1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Programing

Python | Object-Oriented Programming (OOP) | Web Development | HTML5 | CSS3 | JavaScript | Desktop App | Database management | Data Structures | Coding and Scripting | Debugging and Testing

Team Work

Microsoft Teams | Zoom | Outlook | Google Gmail | Google Drive | Microsoft Excel | Microsoft PowerPoint | Microsoft Word | Data Management

Online Search

Internet Navigation | Computer Literacy | Digital Research Skills | Digital Security Awareness

[01/08/2025 – Current]

BioFly Corporate Website — Full-Stack Web Development

- **Tech Stack:**

- **Frontend:** HTML, CSS, JavaScript;
- **Backend:** Python (Flask framework), SQLAlchemy (ORM);
- **Performance:** CDN integration for fast and reliable content delivery;
- **Deployment:** Hosted on www.dominios.pt using **cPanel** Software Management System.

- **Role & Responsibilities:**

- Designed and implemented a responsive website structure for BioFly - a Portuguese company specializing in advanced drone solutions for agriculture, industry, construction, and logistics;
- Built dynamic sections for landing page, about us, services, products, and contact info;
- Integrated videos, images, icons, and key messaging in a clean, user-first layout;
- Ensured seamless user journeys with prominent calls-to-action and accessibility considerations.

- **Outcome:**

- Enhanced the client's digital presence, clearly communicating their drone technology offerings;
- Provided an engaging platform for booking demos, raising leads, and reinforcing brand identity;
- Website available at www.biofly.pt

[01/05/2025 – Current]

Product Scraper - Web Scraper

- **Tech Stack:**

- **Languages/Frameworks:** Python, Scrapy
- **Database:** SQLite, SQLAlchemy ORM
- **Other Tools:** Splash, Bright Data proxy integration, JSON-based progress tracking

- **Role:**

- Backend Developer (Python, Scrapy, SQLAlchemy ORM)

Designed and implemented a robust web scraping system to extract and manage product data from multiple online retailers.

- **Key Highlights:**

- **Data Extraction:**

- Built Scrapy spiders with tailored logic for both HTML and JSON-based endpoints.
- Integrated Splash for rendering dynamic pages
- Implemented modular scraping methods to handle multiple sites consistently.

- **Database & Persistence:**

- Developed relational models with SQLAlchemy for each retailer (PostgreSQL & SQLite supported).
- Implemented deduplication logic to prevent redundant entries.
- Created automatic database versioning with timestamps for historical tracking.

- **Scalability & Performance:**
 - Batch commits of 1000 items to optimize performance.
 - Proxy/IP rotation (Bright Data) for reliable scraping without IP bans.
 - Daily scraping limits with progress tracking (JSON) to balance coverage and cost.
- **Outcome:**
 - Centralized dataset of supermarket products with pricing, categories, and images.
 - Reliable foundation for price comparison, analytics, and recommendation systems.
 - GitHub Repository available at: www.github.com/apecorreia/ProductScraper

[01/07/2025 – Current] **SmartCart – Optimized Shopping List Web Application**

- **Tech Stack:**
 - **Frontend:** HTML, CSS, JavaScript
 - **Backend:** Python (Flask framework), SQLAlchemy (ORM)
 - **Performance:** CSV-based data analysis for faster queries
 - **Deployment:** Self-hosted on a Xubuntu server with HTTPS certification
- **Role:** Full-Stack Developer
- **Overview:** Designed and developed a web application that helps users create optimized shopping lists by comparing product prices across multiple Portuguese supermarkets.
- **Key Contributions:**
 - **Backend & Data Layer:**
 - Integrated **ProductScraper's data pipeline** to deliver real-time product information.
 - Built **Flask REST APIs** for product queries, shopping cart logic, and multi-store price comparisons.
 - Implemented algorithms to generate Smart Lists:
 - **Cheapest list within a single store**
 - **Cheapest overall list across all stores**
 - **Frontend & User Experience:**
 - Developed a **responsive, intuitive UI** with HTML, CSS, and JavaScript.
 - Added **search and filtering features** for quick product lookup.
 - **Deployment & Security**
 - **Hosting:** Self-managed deployment on a **Xubuntu Linux server**.
 - **HTTPS & Certificates:**
 - Configured **Cloudflare SSL/TLS** for secure traffic management and DDoS protection.
 - Set up **Let's Encrypt (Certbot)** on the server to ensure full end-to-end encryption between Cloudflare and the backend.
 - **Firewall & Hardening:**
 - Implemented **UFW firewall rules** to restrict access and only allow required ports (80/443 for web, 22 for SSH).
 - Enabled automatic HTTPS redirection and security filtering via Cloudflare.

- **Reliability & Control:**

- Full control over server, hosting environment, and updates.
- Optimized for **secure, reliable, and scalable performance**.

- **Outcome:**

- Helped users **save money** by finding the best store or combination of stores for their shopping.
- Demonstrated the ability to deliver a **complete full-stack solution**, from data collection and processing to a polished user-facing web app.
- Website available at www.smartcart.pt

- **Future Improvements:**

- **Frontend:** Refine UI/UX for a more modern and user-friendly interface.
- **Backend:** Migrate to **FastAPI** for improved performance.
- **Algorithms:** Optimize shopping list generation to achieve more **natural, human-like results**.