# OREST MARTYN

## CONTACTS

- +351 915 364 973
- orestmartyn00@gmail.com
- www.gitlab.com/ohnoanyway

## EDUCATION

**2020-Present**
UNIVERSIDADE COIMBRA
- Computer Engineering

**2013-2017**
JOSÉ FALCÃO SECONDARY SCHOOL
- Economics

## SKILLS

- Java
- Python
- C/C++
- Data Analysis
- Soft Skills

## LANGUAGES

- Portuguese
- English
- Spanish
- Ukrainian
- Russian

## INTERESTS

- Trading

## PROFILE

I have a solid background in software development, algorithms, and artificial intelligence, with practical experience in programming (Java, Python, C++) and web development (React, Node.js).
I stand out for my analytical skills, being proficient in data analysis techniques, with knowledge in tools such as Python (Pandas, NumPy).

## EXPERIENCE

**Vidor**                                          OUT 2024 - DEC 2024
Full-Stack PHP Developer:
- Development and maintenance of web applications using PHP, MySQL, HTML, CSS, and JavaScript.
- Bug fixing and performance improvement in web systems.

**Stratio**                                        JULY 2023- SET. 2023
Installation Technician:
- Installation of hardware (Wi-Fi, audio systems, displays, validators, and point-of-sale systems) in new and used buses within the Lisbon metropolitan area.
- System integration testing.                      2017- 2020
- Optimization of the installation and logistics process.

**Restaurant**
Cook
- Restaurant: Receive, prepare, and cook ingredients.
- Inventory and critical timing management.         2022-2023

**Research**

University of Coimbra

Orchestration and Resource optimization for rEliable and lOw-latency services
- Design and implement an end-to-end orchestration platform for provisioning and managing critical services.
- Raspberry Pi Cluster, Kubernetes

Independent

Forecasting market trends using Neural Networks (RNN-LSTM)
- Research on approaches to combine technical analysis with machine learning models for better pair trading strategies

## ASSOCIATIVISM

President, República dos Fantasmas                  2020-2024
- Teamwork
- Cultural Events
- Conflict Resolution
- Daily challenges require quick and creative solutions
- Adaptation to new dynamics
- Fundraising

# SELECTED ACADEMIC PROJECTS

## Googol - Distributed Web Search Engine

Developed a distributed web search engine for my Distributed Systems course, featuring real-time search capabilities and automatic web page indexing. Uses technologies including Spring Boot, WebSockets, RMI, and the OpenAI API. Its an end-to-end system with focus on efficient indexing and real-time monitoring. Implemented recursive URL indexing and integrated external sources to enhance search relevance. Modularity and high performance through parallel processing and fault tolerance. The system provides scalable, reliable, and relevant search results in a distributed environment.

## Algorithm Development and Optimization in C++

I developed algorithms in C++ to solve complex optimization and graph analysis problems. This involved creating efficient solutions for counting arrangements in matrices, finding critical paths in mazes, and covering points of interest in complex networks. I utilized advanced techniques such as dynamic programming, breadth-first search (BFS), and bridge detection algorithms in graphs.

# TOOLS, TECHNOLOGIES, AND FRAMEWORKS:

- Operative Systems: Linux (Ubuntu), Windows.
- Automation: Maven (Java Projects), CI/CD pipelines.
- Databases: PostgreSQL, MySQL, PL/pgSQL.
- Collaboration & VCS: Git, GitHub, GitLab.
- Data and Visualization: Pandas, Jupyter Notebook, Matplotlib, MATLAB.
- Web Development: Django, React, HTML, CSS, JavaScript.
- Frameworks & Libraries: Spring, Toga, OpenGL.
- Networking & Protocols: TCP/IP, Wireshark, GNS3, OpenAPI.
- Programming Languages: Python, Java, C, C++, C#, Assembly.
- Others: Arduino, Lex, Yacc, Unity, API development, RMI (Remote Method Invocation).