TIAGO PEDRO

MASTER'S STUDENT & ATHLETE

tiagopedrosoares02@gmail.com

965619393

Rua Doutor António Jose De Almeida, Lisboa, 2780-087, Portugal

2002-12-06 | Portuguese

Single | B/B1

Personal Website | LinkedIn

GitHub | Instagram

CF652439 | Male

LANGUAGES

Portuguese

English

Spanish

HOBBIES

Taekwondo, Guitar, Coding Competitions, Drawing

ABOUT ME

I hold a Bachelor's degree in Computer Engineering from ISCTE – Instituto Universitário de Lisboa, with a strong foundation in software development, algorithms, and systems architecture. My technical expertise includes Python, Java, C, SQL, OutSystems, and web technologies such as HTML5, CSS, and JavaScript, with hands-on experience in full-stack development and end-to-end solution delivery. My interest in technology began through the Apps for Good competition, where I collaborated with industry mentors from BNP Paribas, Microsoft, and Galp, strengthening my problem-solving mindset and focus on real-world impact. I am currently completing a Master's degree in Data Science and Advanced Analytics at NOVA IMS, specialising in Data Science. My thesis focuses on developing an intelligent performance evaluation system that integrates computer vision, biomechanical feature extraction, and machine learning models to assess and optimise performance in Taekwondo Poomsae objectively. The project combines video-based pose estimation, predictive modelling, and interactive dashboards to generate personalised, data-driven training recommendations. Alongside my academic path, I represented ISCTE in Taekwondo at the European University Games, developing discipline, resilience, and strong analytical thinking. I am motivated to apply my expertise in machine learning and software engineering to build scalable, high-impact technological solutions.

EDUCATION

MASTER'S DEGREE, *NOVA IMS Information Management School*
2024 – Present | Lisboa

This program provided advanced training in data analytics, machine learning, big data systems, and optimisation techniques, combining strong theoretical foundations with production-oriented implementation. I developed advanced proficiency in Python, R, and SQL, working extensively with data preprocessing, feature engineering, model training and validation, and performance evaluation. My experience includes predictive modelling, deep learning architectures, and the design of scalable data workflows for structured and unstructured datasets. Currently, I am developing my Master's thesis focused on engineering an intelligent, data-driven performance analysis and decision support system. The project integrates computer vision pipelines, machine learning models, and structured biomechanical feature extraction to process high-dimensional video data at scale. I design modular ML workflows that include data ingestion, preprocessing, model optimisation, and evaluation, with an emphasis on robustness, reproducibility, and performance. By combining AI-driven architectures with interactive analytical dashboards, the system transforms complex multimodal data into quantifiable performance metrics and actionable insights. The objective is to bridge advanced machine learning engineering with real-world, high-impact applications.

COURSES

JAVA, *Udemy*
Jul 2025 – Aug 2025

COMICS - INTRODUCTION, *NEXTART*
Jun 2019 – Aug 2019

PORTRAIT DRAWING, *NEXTART*
Aug 2016 – Sep 2016

BACHELOR, *ISCTE - Instituto Universitário de Lisboa*
2021 – 2024 | Lisboa

During my Computer Engineering degree, I developed strong foundations in programming (Python, Java, C, SQL), data structures, algorithms, and object-oriented design. I gained practical experience in software engineering principles, database architecture, and system design, as well as web development using HTML5, CSS, and JavaScript. I also worked with low-code platforms such as OutSystems, enhancing my understanding of rapid application development and scalable system deployment. Through project-based learning, I designed and implemented end-to-end software solutions, applying clean code principles, modular architecture, testing, and performance optimisation techniques. I developed experience across the full software development lifecycle, from requirements analysis and system design to implementation and debugging. My academic training strengthened my analytical thinking and problem-solving capabilities, with a particular interest in building scalable, data-driven systems. I am especially motivated to work on high-impact products that combine robust engineering practices with intelligent data processing and AI-driven architectures.

WORK EXPERIENCE

IT TEACHER, *Agrupamento de Escolas de Carcavelos*
Sep 2024 – Present | Carcavelos

During the previous academic year, I taught 5th and 6th grade ICT classes, covering digital literacy, responsible and safe use of technology, and introductory programming using Scratch. Students were trained in Google Workspace tools (Docs, Slides, Sheets) to support research, presentations, and information organisation, as well as Canva for visual communication and creative project development. Lessons were structured around active, project-based methodologies, with continuous formative assessment focused on practical projects and presentations. I also participated in subject group meetings and supported the school's digital team in technical troubleshooting and equipment maintenance. In the current academic year, I am teaching 18 ICT classes across Grades 5, 8, and 9, as well as Grade 10 vocational programs (Tourism, Nautical Tourism, and Firefighting). For Grades 8 and 9, I teach Python programming, developing computational thinking, algorithmic reasoning, and problem-solving skills. In vocational programs, I deliver applied Microsoft Excel training, covering advanced formulas, logical functions, and data analysis tools aligned with professional contexts. In addition, I serve as Form Teacher and Citizenship Education teacher for one Grade 5 class. My teaching approach emphasises project-based learning, measurable skill development, and real-world application of digital competencies.

MONITOR, *Cascais Ambiente - EMAC*
Jul 2023 – Sep 2023 | Lisboa

Worked on a short-term assignment spanning six weeks, distributed across July (3 weeks), August (2 weeks), and September (1 week).

AWARDS

National University Champion,
CNU Taekwondo
2026
Portugal

5° PLACE IN JOGOS EUROPEUS UNIVERSITÁRIOS, *EUG*
2022
Poland

2º PLACE IN OPEN CHALLENGE CUP
Belgium

2ºPLACE APPS FOR GOOD,
APPS FOR GOOD
2021
Lisbon

SKILLS

Programming & Software Engineering – Python, Java, SQL | Object-Oriented Programming (OOP) | Data Structures & Algorithms | Full-Stack Development (FastAPI, React) | REST APIs Development | Git & Version Control

Data Science & Artificial Intelligence – Machine Learning (Supervised & Unsupervised) | Feature Engineering & Model Evaluation | Computer Vision (Pose Estimation - OpenPose / MediaPipe) | Deep Learning | Predictive Modeling | Computational Intelligence

Data Engineering & Databases – PostgreSQL, MongoDB | Database Design & Optimisation | Data Modeling | ETL & Data Preprocessing Pipelines | Big Data Concepts

Tools & Technologies – FastAPI | React | Google Workspace | Microsoft Excel (Advanced - formulas, logical functions, data analysis) | OutSystems

Leadership & Professional Skills – Team Leadership | Project-Based Methodologies | Analytical Thinking | Problem-Solving | Adaptability | Technical Communication