



Tiago Barbosa

Informatics and Computing Engineering

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Porto, Portugal



My name is Tiago Filipe Magalhães Barbosa and I am pursuing my Master's in Informatics and Computing Engineering at FEUP in Porto, specialising in Artificial Intelligence and Deep Learning. I stand out for my ability to efficiently solve problems, manage projects, and collaborate effectively in diverse teams, which I have consistently applied throughout my academic journey and international experiences.

Education

Faculty of Engineering of University of Porto

Porto, Portugal

Master's Degree in Informatics and Computing Engineering

Sep 2023 - Present

- **Key Areas:** Machine Learning, Software Development (Large Scale), Distributed Systems (Large Scale), Requirements Engineering, Enterprise Management and Project Management

Vienna University of Technology (TU Wien)

Vienna, Austria

Erasmus+ Exchange Programme

Sep 2024 - Feb 2025

- **Key Areas:** Generative AI, Quantum Computing, Cryptocurrencies and Ubiquitous Computing (IoT)

Faculty of Engineering of University of Porto

Porto, Portugal

Bachelor's Degree in Informatics and Computing Engineering

Sep 2020 - Jul 2023

- Graduated with **18/20**

- **Key Areas:** Artificial Intelligence, Functional and Logic Programming, Parallel and Distributed Computing, Web Technologies, Computer Networks, Computer Security, Programming, Algorithms and Data Structures, Databases, Operating Systems, Algorithm Design and Compilers

Other:

Boğaziçi University (BEST Summer Course) about Brand Management

Istanbul, Turkey Jul 2024

Projects

Enhancing Security in Deep Neural Networks (Master's thesis)

@FEUP Feb 2025 - Present

- This research aims to improve the resilience of deep neural networks against adversarial attacks by developing real-time detection mechanisms and innovative defence strategies. The goal is to identify vulnerabilities in AI models and strengthen their robustness, ensuring safer and more reliable AI applications.
- **Skills:** Python, PyTorch, Deep Learning, Cybersecurity, Research, Autonomy, Critical Thinking

Notifications Micro Service

@Altice Labs and FEUP Feb 2023 - Jun 2023

- This project proposes a new micro-service for network alerts. It goes beyond traditional methods by sending real-time notifications directly to Altice and users' preferred platforms (WhatsApp, Teams, etc.). This ensures faster response times and a more informed user experience, ultimately improving telecommunication service reliability.
- **Skills:** Java, Quarkus, Kubernetes, Leadership, Teamwork, Logical Thinking

Skills

Programming: Python, Java, C, C++, JavaScript, SQL, NoSQL, HTML, CSS, PHP, PyTorch, Docker, CI/CD, Git

Areas of Interest: Artificial Intelligence, Machine Learning, Deep Learning, Cybersecurity, Cloud Computing, Software Development, Web Development

Soft skills: Problem-Solving, Critical Thinking, Teamwork, Leadership, Communication, Adaptability, Time Management, Project Management, Creativity, Cross-Cultural Collaboration

Languages: Portuguese – Native, English – Fluent (C1)