

Tiago Dias

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EXPERIENCE

Gen AI Software Engineer - Full Time

Banco BPI & Capgemini Portugal

June 2025 - Present

- Led a cross-functional team in developing an AI-powered migration application capable of converting legacy .NET Framework services to .NET 8 for the BPI enterprise banking system, slashing migration timelines by 50% and significantly reducing operational costs for the modernization initiative.
- Designed and implemented intelligent automation workflows using Python and LLMs that analyzed 500K+ lines of legacy code, automatically identifying patterns, refactoring complex business logic, and generating modern .NET 8 implementations while improving code maintainability scores by 30% and reducing deployment failures by 25%.
- Drove technical leadership across engineering, BPI architecture, and product teams, coordinating sprint planning, stakeholder communications with BPI's senior architects, and ensuring platform delivery aligned with enterprise security and compliance requirements for a financial institution.
- Recognized as an innovation exemplar, the AI migration application as selected to appear at Capgemini's 2025 Europe Cluster Delivery & Operations Townhall to 500+ engineering leaders from around the globe, highlighting the solution's potential for scaling across other Capgemini banking clients globally.

Gen AI Software Engineer - Internship

Capgemini Portugal

March 2025 - June 2025

- Built an AI-powered knowledge management system that transformed how employees accessed critical corporate information by deploying a Python-based AI agent capable of extract insights automatically from hundreds of multi-page policy documents, technical manuals, and compliance files reducing research time by 40% and enabling faster decision-making across departments.
- Architected a RAG (Retrieval-Augmented Generation) pipeline combining Spacy and NLTK for intelligent document chunking with FAISS vector search, enabling semantic retrieval across 10,000+ document pages.
- Enhanced AI accuracy through custom fine-tuning, adapting a large language model on proprietary domain documentation and implementing advanced prompt engineering strategies that improved question-answering precision by 25% reducing incorrect responses and building user trust in the system.
- Designed a stateful conversational interface that maintained context across multi-turn dialogues, allowing users to ask follow-up questions naturally and refine searches iteratively boosting successful self-service resolutions by 35% and decreasing support ticket volume.

Full Stack .NET Developer - Internship

Consulteware

March 2019 - August 2019

- Architected a time clock system with the IT team, slashing data retrieval times by 30% via SQL queries.
- Engineered CRUD operations for real-time tracking of 5,000+ monthly employee hours and shifts.
- Achieved 100% reporting accuracy by enforcing precise business logic and data validation in C#.
- Spearheaded crossfunctional database optimizations using C#, guiding junior developers in strategic query refinements that reduced response times by 40% while aligning with teamdriven goals.
- Teamed with the QA department to integrate C# and SQL time clock logic, eliminating discrepancies through collaborative testing and feedback loops.

EDUCATION

Master's degree in Computer Science

ISTEC • 2025

Bachelor's degree in Computer Science

ISTEC • 2021

SKILLS

Python, C#, JavaScript, SQL, MongoDB, Generative AI, Retrieval-Augmented Generation (RAG), Machine Learning.

Languages: Portuguese (C2), English (C1)
