Rafael Torres Nóbrega Gomes

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SUMMARY

Computer Science student at UFPB with hands-on experience in **Software Engineering and Data Science**. Skilled in developing and deploying **LLM and Machine Learning systems** into production. Strong foundation in software engineering and applied research, with projects spanning RAG, time-series forecasting, and AI-based recommendation systems.

EXPERIENCE

AI Engineering Intern – MGI Tech (partnership with LAGID/UFPB)

Apr 2025 - Present

- Developed a **Retrieval-Augmented Generation (RAG)** system enabling LLMs to answer client queries using product manuals as context.
- Implemented LLM-powered data analysis workflows, generating numerical indicators and insights in an interactive dashboard.
- Contributed to system architecture, data engineering, and ML deployment, improving scalability and reliability.

Data Scientist - TRIL Lab

Dec 2024 - Apr 2025

- Performed data preparation, exploratory analysis, and prototyping for AI research initiatives.
- Contributed to development of multi-agent systems for sales automation (CrewAI).

EXTRACURRICULAR EXPERIENCE

Student Member – TAIL (Technology and Artificial Intelligence League)

Jun 2025 - Present

- Advanced skills in Machine Learning, Deep Learning, and Data Science by building collaborative AI projects.
- Engaged in research and development activities within the first AI student league in Northeast Brazil.

Trainee – Trilha Aug 2024 – Dec 2024

- Acquired foundational knowledge in AI, programming logic, and ML pipelines.
- Applied software engineering best practices in hands-on projects.

PROJECTS

Blonded AI - Music Recommendation System

Built a recommendation engine using Spotify embeddings and PCA, improving personalization and similarity matching.

TARG - Time-series Analysis & Report Generator (Hackathon)

Designed a web platform to predict BBAS3 stock prices (5-day horizon) using LSTMs, web scraping, and sentiment analysis.

Brazilian Championship Simulator - Java + Spring Boot

Developed a football championship simulator with a realistic match engine, live stats, and MVC design patterns.

LLM API Workshop - LAGID/UFPB

Conducted a workshop on LLM API usage: authentication, prompting, chatbot deployment, and extracting insights from data.

EDUCATION

Bachelor of Computer Science – Federal University of Paraíba (UFPB)

01/2024 - 12/2027 (expected)

CERTIFICATIONS

Cambridge Certificate in Advanced English (CAE)

12/2022

Grade B, CEFR B2 (Upper-intermediate proficiency) – Overall score: 175 (198 in Speaking)

SKILLS

Programming Languages: Python, C, Java, R, JavaScript

Machine Learning: Neural Networks, NLP, RAG, Embeddings, Time Series Forecasting, Model Deployment

Frameworks & Tools: Pandas, Scikit-learn, PostgreSQL, MongoDB, PyTorch, TensorFlow, Git **Languages:** Portuguese (Native), English (Advanced, CAE Certified), Spanish (Intermediate)