

Rafael Torres Nóbrega Gomes

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SUMMARY

Computer Science student at UFPB with experience in **Software Engineering, AI/ML Engineering, and Data Science**. Skilled in **scalable web applications, Machine Learning systems, and full-stack development**. Strong foundation in **system architecture and design patterns**, with a focus on building reliable, **AI-driven solutions** that deliver **real-world value and scalability**.

EXPERIENCE

SeverinoBiu <i>Software Engineer</i>	Nov 2025 - Present
• Building and maintaining a production web application as a full-stack engineer, focusing on reliability and performance.	
MGI Tech (partnership with LAGID/UFPB) <i>Software Engineering Intern</i>	Apr 2025 - Oct 2025
• Developed a Retrieval-Augmented Generation (RAG) system enabling LLMs to answer client queries using product manuals as context, leading to improved client satisfaction.	
• Implemented LLM-powered data analysis workflows , generating numerical indicators and insights in an interactive dashboard, improving decision-making speed.	
• Contributed to system architecture, data engineering, and ML deployment , improving scalability and reliability.	
Zoox Smart Data (partnership with TRIL Lab) <i>Data Scientist</i>	Dec 2024 - Apr 2025
• Performed data preparation, exploratory analysis, and prototyping for AI research initiatives, leading to improved model accuracy and insights.	
• Developed a multi-agent system for sales automation (CrewAI), enhancing sales efficiency and reducing manual workload.	

PROJECTS

Blonded AI – Music Recommendation System Github	
• Built a Flask -based recommendation engine using embeddings, PCA, and ChromaDB with cosine similarity for fast vector-based similarity matching, featuring real-time Spotify API integration and a modern Vue.js interface.	
GuardAzul – Mobile Environmental Protection App (Top-4 Finalist, Paraíba Statewide Hackathon) Github	Apr 2025
• Built a React Native + FastAPI + PostgreSQL app with Computer Vision validation for georeferenced environmental reports and automated pollution detection, featuring an AI-powered chatbot for coastal ecosystem education.	

EXTRACURRICULAR EXPERIENCE

TAIL (Technology and Artificial Intelligence League) <i>Student Member</i>	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.	
LAGID/UFPB <i>LLM API Workshop</i>	Apr 2025
• Conducted a workshop on LLM API usage: authentication, prompting, chatbot deployment, and extracting insights from data for > 70 students.	

EDUCATION

Federal University of Paraíba (UFPB) <i>Bachelor of Computer Science</i>	2024 - 2027
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CERTIFICATIONS

- Cambridge Certificate in Advanced English (CAE): 01/2023
CEFR B2 – Overall score: 175/220 (198 in Speaking)

SKILLS

- Languages (Programming):** Python, TypeScript, C, Java, R, JavaScript
- AI & Systems:** LLMs, RAG, Embeddings, Asynchronous Systems, Streaming UX, Model Deployment, Computer Vision, Machine Learning
- Frameworks & Tools:** NestJS, PostgreSQL, MongoDB, FastAPI, React, Flask, Git, Docker
- Languages:** Portuguese (Native), English (Fluent, CAE Certified)