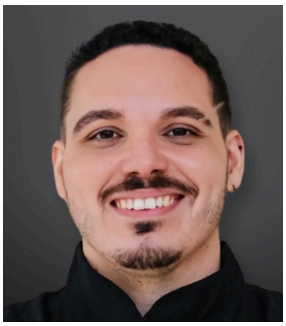
Rafael Macário Fernandes



Profile

Passionate and detail-oriented **NLP Engineer** and PhD candidate in Computational Linguistics, with deep expertise in developing LLM-based applications, prompt engineering, and MT evaluation. Experienced in building chatbots and Retrieval-Augmented Generation (RAG) pipelines using LangChain, FAISS, and Python. Strong background in domain adaptation, data annotation, corpus development, and multilingual NLP for Brazilian Portuguese. Skilled in bridging linguistic theory with scalable engineering to deliver robust, production-ready NLP systems. Fluent in **English** (C2), **Spanish** (B2), and **Portuguese** (native).

Contact details

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https://github.com/rmaacario

158 Paim – Ap 61, São Paulo (BR)

Skills

- **Languages & Tools:** Python · R · GitLab · Docker · VSCode
- **Frontend/Backend:** React.js · Node.js · Vite · HTML · CSS
- **Frameworks, NLP, & others:** FastAPI · Flask · TensorFlow · Hugging Face · LangChain · Ollama · Pandas · spaCy spaCy · Scikit-learn · Markdown · CSV · JSON

Experience

WiLine Networks *Princeton, US / Remote*
Sep 2024 – Present · 1 yr 9 mos

- **NLP Engineer** **May 2025 – Present · 1 yr**
  ◇ Responsibilities: Built production-grade chatbots using LangChain, FAISS, and LLMs; | Designed scalable RAG pipelines with custom retrievers and API integration; | Automated multilingual documentation workflows via GitLab using webhooks, DeepL, and LLMs; | Developed APIs connecting vector stores to generation components; | Delivered resilient, high-availability systems within agile, cross-functional teams.
  ◇ Skills: LangChain · FAISS · LLMs · RAG · Python · Git · Webhooks · Shell · Markdown · VS Code · API Design · React.js · NLP · Conversational AI.
- **Technical Writer** **Sep 2024 – May 2025· 9 mos**
  ◇ Responsibilities: Developed and maintained clear, concise, and user-friendly multilingual documentation using Docusaurus; | Customized and extended Docusaurus functionality using React/CSS and JavaScript; | Integrated Google Analytics and Tag Manager to track user engagement and optimize content; | Enhanced documentation UX/UI and navigation with chatbot-based assistance and other open-source support tools.
  ◇ Skills: React.js · JavaScript/JSX · Docusaurus · HTML/CSS · Git · Markdown · API Docs · Analytics · Documentation UX · Git · VS Code.

Intento, Inc. *San Francisco, US / Remote*
May 2024 – Sep 2024 · 4 mos

- **Linguist Analyst**
  ◇ Responsibilities: Conducted multilingual MT & AI evaluations following company playbooks; | Ran extended evaluations for generative tasks (summarization, voice recognition, etc.); | Improved evaluation pipelines and automated repetitive steps through scripting; | Delivered actionable feedback and enhancement proposals to the R&D team; | Contributed to improved benchmarking reports adopted by client-facing teams.
  ◇ Skills: MT/AI Evaluation · NLP Tools · Python (spaCy · pandas · sacreBLEU) · Jupyter Notebooks · Prompt Engineering · R&D · Automation.

Education

University of São Paulo (USP) *São Paulo/SP (BR)*

- **PhD in Computational Linguistics** **2024–present**
  ◇ Fine-tuning, prompting, and RAG for Low-resource languages.
- **MA in Computational Linguistics** **2022–2024**
  ◇ Open-source LLMs vs. NMT systems for translating spatial semantics.

◇ Skills: Python (Transformers · SentencePiece · sacreBLEU · pandas · numpy · matplotlib) · R (tidyverse · ggplot2) · Hugging Face · LangChain · FAISS · Google Collab · Machine Translation · RAG · Prompting · Fine-tuning · LQA

Other Experience

Research Intern – Electrical Engineering
Illinois Institute of Technology, Chicago (US) **Summer 2015**

Exchange Student – Electrical Engineering
New York Institute of Technology, New York (US) **2014–2015**

Portfolio

Portfolio: rmaacario.github.io/portfolio — NLP, LLMs, and technical documentation projects.