

HENRIQUE S. P. VAZ

AI ENGINEER | SOFTWARE ENGINEER

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EXECUTIVE SUMMARY

Software Engineer with 4+ years of experience in backend development, automation/scraping, and AI integrations. Skilled in automation tools (such as Selenium, Playwright, and Robot Framework) and AI solution technologies including RAG, Agent & Agentic AIs, Multimodal AI. Proven track record in designing AI agent workflows and integrating SOAP/REST APIs, where 100% of manual processes were replaced by intelligent automations.

PROFESSIONAL EXPERIENCE

Software Engineer (On-Demand Projects) | Xora Solutions | Jan 2020 – Present

- Developed and implemented over 30 custom integrations with third-party systems (REST, SOAP) using Python and TypeScript, automating data flows and reducing manual synchronization time by up to 80% for clients.
- Led data collection automation and RPA projects, extracting information from complex sources and delivering structured datasets that accelerated clients' business analysis by 40%.

Mid-Level Developer | Legislative Assembly of the State of Paraná | Jan 2025 – Jun 2025

- Built automation pipelines using Selenium, Playwright, and Robot Framework, including bypass mechanisms for advanced CAPTCHA systems (e.g., PerimeterX), increasing data collection efficiency by 60%.
- Developed full-stack applications with Flask, React, and MongoDB, integrating AI services to create adaptive and intelligent automations.

Developer and Support Specialist | MPS Informática | Jun 2023 – Jan 2025

- Developed full-stack solutions for CRM, ERP, and financial systems using .NET Core, ASP.NET, Delphi, and Python, delivering new features that increased user productivity by 25%.
- Automated internal workflows, reducing manual effort on repetitive tasks by approximately 15 hours per week.
- Managed and optimized multi-database environments (SQL Server, PostgreSQL, Sybase, MySQL), performing migrations and tunings that improved query response times by 30%.

TECHNICAL SKILLS

- Artificial Intelligence Frameworks:** LangChain, LangGraph, CrewAI, AutoGen, BeeAI
- Browser Automation:** Selenium, Playwright, Robot Framework
- Backend Development:** Python, JavaScript, TypeScript
- Databases:** SQL Server, MySQL, MongoDB, PostgreSQL, Pinecone, ChromaDB, FAISS
- QA and Testing:** Pytest, unittest, Mocha/Chai.
- Cloud & DevOps:** IBM, AWS, Azure, GCP, Jenkins, GitHub Actions.

EDUCATION

Systems Analysis and Development | Pontifical Catholic University of Paraná (PUC/PR) | 2022 – 2025

CERTIFICATIONS

- IBM RAG and Agentic AI | IBM
- Systems Automation | Federal Institute of Rio Grande do Sul (IFRS)

LANGUAGES

- English: C1 (Advanced/Fluent)
- Portuguese: Native