

# HENRIQUE S. P. VAZ

## SOFTWARE ENGINEER

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[www.linkedin.com/in/henrique-sprengoski-pereira-vaz-26a145165](https://www.linkedin.com/in/henrique-sprengoski-pereira-vaz-26a145165) | <https://github.com/RiqueVaz> | Curitiba-PR, Brasil

### EXECUTIVE SUMMARY

Software Engineer with 4+ years of experience specializing in robust backend architecture, advanced QA automation, and AI integrations. Proven ability to design high-availability systems using message brokers (Redis, RabbitMQ, BullMQ) and modern frameworks. Highly skilled in building complex automation pipelines (Selenium, Playwright) and leveraging AI technologies (RAG, Agentic AI, Vector DBs) to deliver scalable, intelligent, and thoroughly tested software solutions.

### PROFESSIONAL EXPERIENCE

#### 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%.

#### 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.

#### Software Engineer | HotTrack | Jun 2025 - Mar 2026

- Architected and developed a robust backend using Node.js and PostgreSQL, integrating Redis and BullMQ for complex, ManyChat-style automated workflow and synchronized job queuing.
- Developed and maintained highly available financial modules, automating critical transactions such as dynamic revenue splitting and partner payouts, while ensuring 24/7 uptime for mission-critical operations.

### TECHNICAL SKILLS

- Languages & Frameworks:** JavaScript, TypeScript, Python, Node.js, Flask, React, Java.
- Architecture & Message Brokers:** Redis, BullMQ, RabbitMQ, Apache Kafka.
- Databases:** PostgreSQL, MongoDB, SQL Server, MySQL.
- AI & Vector Databases:** Pinecone, ChromaDB, FAISS.
- Browser Automation & Scraping:** Playwright, Selenium, Robot Framework.
- QA & Testing:** Pytest, unittest, Mocha/Chai, Cypress, Cucumber, Postman, Swagger.
- Cloud & DevOps:** Azure, AWS, GCP, Railway, Vercel, GitHub Actions, Docker.

### 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