Leandro Andreoli

Senior QA Test Automation Engineer · Tech Lead · AI Builder

Multi-agent orchestration · AI software factory · AI-assisted testing

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Brazilian national · European Union citizenship

SUMMARY

Senior test automation engineer who builds with AI. My current focus is **multi-agent orchestration** and the **AI software factory** concept: a new form of agentic coding that goes far beyond a single prompt, where teams of specialised AI agents are orchestrated to plan, execute, review and verify engineering work from tickets. I develop it in **FactoryAI**, a personal project.

Since 2024 I explore AI every day and build my own solutions: TAIP, a testing platform where AI explores the application and generates the tests on its own; WeHostAI, an assistant with RAG connected to WhatsApp; and agenda-now, online booking software for small service businesses. I test my own AI systems. I am part of the AI & Data group at the company where I work, where I propose and present AI solutions and agent orchestration.

I have 9+ years in test automation (Java, Cucumber, Selenium) and 20+ in IT and finance, with strong experience in banking and financial services (CACEIS Bank, Santander Totta, Via Varejo). Since June 2025 I am Tech Lead and technical coach of a team of 12 test analysts.

AI EXPERIENCE 2024 – present

At work · ITDS, CACEIS Bank project

- I am part of the AI & Data group at the company where I work. I propose AI solutions for the company and presented a multi-agent, agentic solution with a live demonstration. Took part in organising, and was a technical judge at, the AI Hackathon, a KLX event for employees.

Personal projects, built with AI

FactoryAI · software factory with multi-agent orchestration, in development

- Goes beyond single-prompt vibe coding: the result comes from orchestrating several agents, each with its own role.
- I create my own AI agents that cooperate with each other in a software factory system: engineering work runs like a production line, with specialised agents at every stage.

- Tickets are managed in Linear. Agents handle planning, execution, independent review, verification and release preparation, and an orchestrator agent distributes the tickets to the others.
- In the current implementation I use Grok agents as workers.
- I use Cursor to manage the agents. It is the topic I am studying most closely right now.

TAIP · taiplabs.com · *vibe testing* platform, in development

- Just as *vibe coding* lets people create software without programming, *vibe testing* lets them create tests without knowing testing: the technical knowledge lives inside the platform.
- The user provides only the application URL and credentials. The AI explores the application on its own, discovers the flows and identifies the critical paths.
- Generates Playwright tests from the end user's perspective and creates the smoke tests, with nobody writing scripts.
- Runs basic and advanced security tests.
- Monitoring already working: a daily job runs the smoke tests, shows the application's health status and notifies the user when a service fails.
- Built an MCP server for interaction with LLMs.
- Technology: Python (FastAPI), Playwright, MCP.

WeHostAI · AI assistant for short-term rentals, for personal use

- Chatbot that answers guests and sends automatic messages over WhatsApp, in use at my own guesthouse.
- Uses RAG to answer from the property's own information.
- Integrated by API with Smoobu, the reservation management system.
- I test the assistant's answers, including whether it makes things up.

Agenda-now · agenda-now.com · online booking for small businesses

- Shared calendar, public booking page and email reminders, for hairdressers, barbers, beauty, physiotherapy and clinics.

AI tools I use and test: Claude, Claude Code, Codex, Antigravity, GitHub Copilot, Grok and Grok agents. **Cursor** for agent management and **Linear** for ticket management. **Techniques:** multi-agent orchestration, AI software factory, RAG, MCP, agentic multi-agent solutions.

CERTIFICATIONS ISTQB®, no expiry date, earned while working at Via Varejo

CTFL Foundation Level, 2018

CTFL Agile Tester, 2019

CTAL-TAE, Test Automation Engineer (Advanced Level), 2020

SKILLS

Test automation: Java, Selenium WebDriver, Cucumber / BDD (custom step development), Playwright, Capybara

API testing: Postman, Rest Assured, SoapUI; data validation in Kafka and MongoDB

Performance and observability: JMeter, Kibana, Elasticsearch

CI/CD and tools: Jenkins (quality gates in pipelines), Git, Jira, Confluence, Linear

Practice: functional, integration, end-to-end, regression, exploratory and data-validation testing; test design; risk-based choice of what to automate; Agile; ITIL and change management

Domains: banking and financial services, e-commerce, SAP FI/CO, mainframe

PROFESSIONAL EXPERIENCE

ITDS Business Consultants — Aug 2022 – present

Lisbon (hybrid) · Consultant at KLX Lisbon, CACEIS Bank project (financial services)

Test Automation Tech Lead · Jun 2025 – present

- Tech Lead and technical coach of a team of 12 test analysts in Malaysia.
- Instead of executing tests, I program complex Cucumber steps in Java and Selenium. They are reusable and have no hard-coded values: variable data is passed in as parameters, which gives a cleaner solution with less duplication that is easier to maintain.
- Took part in the creation and rollout of quality gates (automated quality controls) in the Jenkins pipelines of several development teams at the company, where none existed before.
- Work with Jira and Confluence for planning, documentation and traceability.
- Part of the company's AI & Data group (see "AI Experience").

Senior QA Test Automation Engineer · Aug 2022 – May 2025

- Wrote and executed automated test scripts with Java, Selenium and Cucumber for several applications of the CACEIS Bank project.
- Ran regression and end-to-end testing in an Agile team.

PrimeIT — Nov 2021 – Jul 2022

Lisbon · Software QA Test Engineer · Santander Totta (bank), Net Empresas squad

- Manual, exploratory and automated testing of the Net Empresas business internet banking website.
- REST API test automation with Java and Rest Assured.
- Web automation with Java and Cucumber.

Hypeflame (AgiBank), Santa Catarina, BR (remote) May 2021 – Nov 2021

Senior Software Test Engineer · Portabilidade project (financial services) · in parallel with Via Varejo

- API testing with Postman and API performance testing with JMeter.
- API and web automation with Java and Cucumber, including Salesforce web flows.
- Tested Camunda (BPMN) workflows; validated data in MongoDB and Kafka; analysed error logs in Kibana.
- Designed the test scenarios.

Via Varejo (retail and e-commerce), São Caetano do Sul, BR

Jul 2017 – Oct 2021

Finance QA Software Tester · financial and accounting integration systems

- Automated mainframe (f3270 library), web and API tests with Java and Cucumber, and combined them in end-to-end integration tests across e-commerce and mainframe systems.
- Wrote test plans and test cases and execution schedules; ran integration and functional tests, reported defects and followed up on fixes.
- Mapped interdependencies between projects and systems and validated the origin, destination and integrity of data.
- Planned and followed up integration and user acceptance testing.
- Know the whole retail process: web sale, payment, picking, shipping, hand-over to the carrier and delivery to the customer, plus returns and exchanges.
- Tools: SoapUI, TestLink, Mantis, SQL, Selenium, SAP, CICS, mainframe (RDz), ERwin Data Modeler.

Hamburg Süd Group (container shipping), São Paulo, BR

Sep 2014 – Sep 2015

SAP FI/CO Consultant · SAP rollout in Brazil

- Managed financial-systems projects: cost, quality, resources, communication, risk and deadlines of level 2 and 3 teams.
- Coordinated change requests and priorities for in-house and third-party systems (SYNCHRO, c-PROFIT) in terms of cost, benefit, scope, deadline and risk.
- Analysed requests from business areas, separating change requests from system errors, and wrote functional specifications with them.
- Coordinated system deployments and updated the documentation of systems, scheduled jobs and interfaces.
- Supported users as the business partner between the business area and the system vendor.
- Monitored the quality of Omnitracker tickets (SLA, documentation, classification) and provided data for management reports.
- Mapped company processes for the 2015 SAP FI/CO implementation.

IBM, Hortolândia, BR

Jun 2012 – Sep 2014

SAP FI/CO Support Consultant for Amgen (pharmaceutical)

- Resolved tickets and answered how-to questions; provided global support to Amgen's units in AP, AR, GL and AA.
- Supported the pre- and post-go-live and stabilisation phases; support after the SAP 6.0 upgrade and after the Russia and Brazil rollouts; took part in the Croatia and Lithuania rollouts.
- Supported the P2P module and its integration with Ariba; worked with SAP interfaces and legacy systems.
- Acted as change and functional manager for FI configuration, enhancements and tests (HP QC10 and ALM 11).
- Resolved payment-program, month-end-closing, invoice-verification (MIRO) and failed-IDoc issues.
- Wrote end-user training material, functional specifications and manuals (BPP).

IBM, Hortolândia, BR

Jan 2009 – Jun 2012

Asset Management Analyst

- Managed and controlled software licences: quotation and purchase, and analysis of licence changes on server activations for IBM customers.
- Handled changes and issues and supported internal clients on software licences.

SESI SP (education), São Paulo, BR
Apr 2007 – Oct 2008

Buyer

- Quotation, purchasing and technical specification of materials; control of goods received and pending from the units.
- Management and budget reports, monthly and annual goals, statistical reports in Excel; travel and hotel booking for training.

SENAC SP (education), Piracicaba, BR
Apr 2006 – Mar 2007

Accounts Payable and Receivable Analyst

- Accounts payable and the financial routine, receipts, daily postings and closing, bank reconciliation, cash flow and budget planning.
- Managed the collections portfolio: negotiation, active collection, customer service and credit-bureau (SPC) registration of defaulting customers.

Bradesco (bank), Piracicaba, BR
Feb 2004 – Sep 2005

Finance Services Coordinator

- Coordinated bank collections and the branch back office; managed the collections portfolio (corporate and individual customers) and phone collection.
- Managed legal contracts, credit analysis, customer service, product sales and new-customer acquisition.
- Installed and supported the Bradesco Net Empresa systems (Pagfor, Siscob); deputised for the Corporate Manager.

BCN (bank), Piracicaba, BR
Sep 2001 – Jan 2004

- **Finance Services Assistant** (Dec 2002 – Jan 2004): corporate contracts, credit analysis, collections, cheque and bill discounting, new-customer acquisition; installed and supported the "Office Banking" system.
- **Bank Teller** (Sep – Nov 2002): customer service, receipts and payments, product sales.
- **Administrative Assistant** (Sep 2001 – Aug 2002): bank collections, cheque and bill discounting, customer service.

EDUCATION

Systems Analyst, Methodist University of Piracicaba (UNIMEP), 2006
SAP Academy, FI module, Ka Solution School

LANGUAGES

Portuguese (native) · English (fluent, C1) · French (B1, learning)