Renzo Chiarino

FULL-STACK & AI ENGINEER

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PROFESSIONAL PROFILE

Software Engineering student working on my **thesis**, focused on building full-stack applications end to end. My background in graphic design shapes how I build software. I give interface and usability decisions the same weight as the backend.

- Building LLM agents with LangGraph and **measuring what they produce**. I wrote most of Fitness Duo's (my thesis) workout-generation service, along with a set of test cases scored against a rubric and tracing in a self-hosted Langfuse, so every prompt or model change gets compared on real output.
- Setting up **AI-assisted development for teams**. I published AgentHarmony, an installable set of coding-agent configurations, and co-built a coding agent harness, the shared Claude Code plugin my thesis team uses: it routes each change to a direct edit, a short spec, or a full spec-driven process depending on its size. I also wrote its **review pipeline**, which checks PRs against our architecture rules, runs mutation testing to confirm our tests actually catch bugs, and posts inline comments on GitHub.

WORK EXPERIENCE

Software Engineer | MetricData 01-2026 - Present

- Build finance automation for Uruguayan companies, mainly two systems.
- Took over an early prototype and redesigned it into a **bank reconciliation platform** Bilpa's accounting team uses every month, with automatic and manual matching against BROU and Itaú statements and PDF reports.
- **42 reconciliations registered, averaging over 93% auto-matched**; the accounting lead no longer reconciles by hand, and 2 to 4 people use it regularly.
- Designing the next version, built to serve many clients and run on AWS.
- Built a **bank scraper** on my own that pulls statements from both banks at once with Playwright and lets staff find any transaction by amount, shipped per client as an encrypted Docker image.

Fullstack Developer | Sagitta 08-2025 - 11-2025

- Built a web scraping system with Scrapy and Selenium to extract real estate listing data.
- Connected it to an AI-powered chatbot, using LLMs through Ollama and Gemini, that let users query their personalized property matches.
- Built the chat interface as a separate web application.

Founding Engineer | Metria 01-2025 - 08-2025

- Built and improved the core AI agent and led a revamp of the web application.
- Built the **back-office web app** used to manage the business.
- Focused the UI on **user experience**, using React, TanStack and shadcn/ui.

PROJECTS

AI Agent Present

- Building an "AI employee" for WhatsApp, the channel local businesses already use to sell but can't staff around the clock.
- The agent answers product questions from a live catalog, quotes prices, and takes orders through a full cart-and-checkout flow.
- **Hands off to a human when needed**, and the owner manages everything from a web dashboard.
- Built with FastAPI, LangGraph, and a swappable LLM backend (local or cloud), so businesses can control cost and data privacy.

EDUCATION

Software Engineering Expected 2027
Universidad ORT Uruguay

Graphic Design Course 2015
BIOS

PC Repair and Network Installation Technician 2014
BIOS

TECHNICAL SKILLS

AI:	LangGraph, LangChain, Langfuse, RAG, pgvector
Front-end:	TypeScript, React, Next.js, TanStack, Tailwind
Backend:	Python, FastAPI, C#, .NET, Node.js, Express
Database:	MongoDB, Firebase, PostgreSQL, MySQL
Scraping:	Playwright, Scrapy, Selenium
DevOps:	Docker, AWS, GitHub Actions
Testing:	Jest, MSTest, Postman, TDD & BDD