

Tom Piaggio

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Engineering leader and founder. Built and shipped AI systems at every layer: a real-time CCTV analytics platform serving ~200 cameras per server, the largest single pipeline ever run through Google's Vision API, and an agentic browser-testing product sold to banks and scale-ups. Twice founding CTO; ex-Google L5.

Autonoma - Co-founder & CTO

San Francisco · Jan 2024 - present · Bessemer-backed; angels include Guillermo Rauch (CEO, Vercel) and Matías Woloski (CTO, Auth0) · github.com/autonoma-ai/autonoma (open source)

Agentic end-to-end testing: an autonomous browser agent runs a product's real user flows on every PR and reports failures with video, logs, screenshots, and code-level evidence from an actual execution.

- Led all engineering, hiring, and product roadmap for a 9-engineer team; set monthly technical objectives directly from business targets.
- Designed the browsing agent from scratch. Navigation paths are derived from source code rather than inferred by the model, so it runs on small models: **median cost \$0.50 per PR**, versus \$5-15 for a typical LLM code review, which reports opinions on the diff rather than evidence from running it.
- Took the product from zero to paying customers as four technical founders with no sales team: **peaked at ~\$550K ARR**, up to \$50K ACV. Weekly regression pipeline at 98% accuracy for a major Argentine bank's digital brand; deployed at fintechs and scale-ups including Superhuman and Mercor.
- Built the growth engine with AI-generated, experiment-driven content and no prior marketing experience: 0 to 5.9M search impressions and 68.8K clicks in 12 months (peak month 2.06M / 24K), driving **~1,400 signups/month**.
- Recruited a team that includes engineers who have compiled models to hand-tuned x86 assembly for inference performance; ran ~100 interviews at Autonoma on top of ~100 at Google.

Google - Senior Software Engineer (L5), AI & Data

Buenos Aires · Apr 2022 - Jan 2024

Embedded with Fortune 500 customers on model best practices and production ML deployments.

- **Reddit:** designed and ran the largest single pipeline in Vision API history: **350M images in a two-week Dataflow/Beam backfill**; Google provisioned dedicated capacity for the load. Engagement grew ~5x from the original scope. Built the downstream IAB taxonomy classifier: USE embeddings + KMeans cluster features, 37 per-category forests with swept F1 thresholds, served on Vertex AI.
- **Mercado Libre:** migrated thousands of tables from Teradata to BigQuery.
- **Government intelligence agency:** trained a T5 translation model inside an air-gapped environment.
- Created the org's AI learning path for Googlers; grew to ~500 members worldwide. Awarded **Initiatives Champion**.
- Conducted ~100 technical interviews for L4-L5 ML and software roles.

Metro Smart Cities – Co-founder & CTO

Buenos Aires · Apr 2019 – Apr 2022

Won a public tender for an airport-scale CCTV analytics system against multinational incumbents (EXA and others) by proposing an AI-based architecture where competitors bid legacy systems. Delivered in one year.

- ~400 fisheye cameras plus three 30MP bullet cameras (**~200 cameras per server**), sub-second latency, air-gapped, on two nodes.
- One camera to N viewport streams via a grab/retrieve split, so ingestion scaled with cameras and decode with demand. 24 services, 88 CPU, 133 GB, 2 nodes.
- Spun out of the university AI lab below.

Universidad Austral – Founder, AI Laboratory

Buenos Aires · Feb 2018 – May 2019

Founded one of the first university AI labs in Argentina; ran a paper-reading group when little material existed locally. Research project with a hospital on real-time multi-camera tracking mapped to an abstract 3D space, with batch queries over object journeys: analytics for people flow, akin to product analytics for physical spaces.

Education

Ingeniería Informática, Universidad Austral, 2015–2020 (attended; left before completing the degree)
 UChicago Polsky – Transform AI Accelerator, 2024

Work authorization

O-1 visa holder. A new employer files a new O-1 petition; existing evidence carries over and premium processing is 15 business days.

Writing

tompiagg.io, including *18 Months of Code, Gone* (why we deleted the first product) and *How to properly do max parallelism in TypeScript*