Agustín Vignolo

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Software Engineer building backend and data-intensive systems for financial and multi-tenant platforms. 4+ years across Ruby on Rails, TypeScript and the JVM (Spring Boot, Spring Batch, Spark), focused on data correctness, batch pipelines and AWS deployment.

SKILLS

Languages: Ruby, TypeScript, JavaScript, Python, Java, Groovy, SQL
Backend and data: Ruby on Rails, Node.js/Express, Spring Boot, Spring Batch, Apache Spark, PostgreSQL, pgvector, Redis, Sidekiq, BullMQ, RabbitMQ
Cloud and DevOps: AWS (EC2, RDS, S3, ALB, Cognito, SES, ECR, Route 53), Jenkins, GitHub Actions, Docker
AI: Agent orchestration (LangGraph), RAG, tool calling, guardrails, evals
Testing: RSpec, Jest, Playwright, TestContainers, TestRail

EXPERIENCE

Advisor Engine | Software Engineer, Automation & Development **Dec 2024 – Dec 2026**
Remote wealth-management platform (teams in the US, Ukraine and Romania) serving large US custodians, broker-dealers and asset managers

- Built a Jenkins orchestration pipeline (Groovy) that runs, after each custodian daily load, a validation job (position reconciliation, impossible and unmapped transactions, negative cash margin) and a diagnostic job, across all custodian jobs
- Created the CI pipeline for the auto data cleanup batch (91 tests previously without CI), catching ~17 failures early in the delivery cycle
- Fixed a billing staging defect by replacing a duplicated Scala linker with a shared manager in a Spring Batch step (integration-tested with DB fixtures); wrote a spark-submit runner to run the job on staging by date, firm and flags
- Designed a read-only data-quality monitor (SQL, Python) enforcing 18 invariants across custodian, sleeve, transaction, position and cash/cash-equivalent layers; results exported to CSV for AI-assisted analysis, which surfaced 10 defects filed under one epic
- Built a TypeScript CLI harness for the shift-left initiative that turns sprint tickets into impact analysis, coverage-gap reports and TestRail cases linked to automation, cutting preparation per ticket from ~90 to ~30 minutes
- Wrote and maintained automated suites (Java, Groovy, Spring, PostgreSQL) covering batch, billing and performance flows

URadar | Technical Lead **Aug 2025 – Sep 2026**
AI-driven cybersecurity training product

- Led architecture of a multi-tenant TypeScript/Express platform (RBAC, Cognito) with a team of developers
- Built 7 LangGraph agents with a Postgres checkpointer and a RAG pipeline (pgvector, PDF/DOCX ingestion, S3)
- Designed the AWS deployment (EC2, RDS, ALB, S3, SES) and GitHub Actions CI/CD with OIDC

Seta Workshop | Software Engineer, Ruby on Rails **Sep 2022 – Dec 2024**
Multi-tenant workforce-management platform for construction companies

- Owned backend and frontend of a platform with 120+ models and 50+ API controllers, with schema-per-tenant isolation (Apartment)
- Upgraded the application from Rails 5 / Ruby 2.5 to Rails 7.1 / Ruby 3.3, refactoring legacy code
- Built scheduled Sidekiq jobs that generate xlsx reports of employee-hours performance and email them to administrators
- Wrote the report query in raw SQL instead of ActiveRecord for performance: pre-aggregated JSON subqueries avoid row fan-out, polymorphic joins resolve hour concepts and activities, and spreadsheet columns are generated dynamically
- Applied Ruby metaprogramming (ActiveSupport::Concern, define_method, constantize) in a content API to build a reusable CRUD controller concern deriving model, serializer and nested strong parameters from the controller name

Ventia | Full-Stack Developer Intern **Feb 2022 – Sep 2022**

- Supported feature work and testing on Node.js and MongoDB applications

PROJECTS

Sistaller | Multi-tenant SaaS for automotive workshops | Rails 8.1 API, React, TanStack Query, PostgreSQL

- In production for 3 months at a workshop that moved from handwritten records to exact margins per customer, vehicle and order
- Robust API: pagination without COUNT queries, composite tenant indexes, database CHECK constraints, idempotent Solid Queue jobs, CSRF/CSP hardening, audit trail
- Fast React client: TanStack Query with tenant-scoped caching and runtime response validation; 271 RSpec examples, Playwright E2E, Brakeman in CI

MercaNova | AI shopping assistant | Python, pgvector, Ollama

- Led a 2-person team: hybrid semantic/SQL search, agent loop with 11 guardrails, 20-case evaluation harness, 409+ tests

Kustomizer | Degree project | Angular SSR, Remix, Supabase

- Visual page editor for headless Shopify storefronts with a component registry and optimistic-locking publish flow

EDUCATION

ORT University | BSc Computer Systems Engineering **Dec 2026**
Languages: Spanish (native), English (C1)