

Henry Mauricio Rincón Caro

Industrial Engineer · Analytics & AI Engineer

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Interactive CV · cases · chat

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Bogotá, Colombia · Open to international relocation and remote work

EXPERIENCE

Analytics Professional

Fundación CTIC

2025 — today

- I lead the institutional AI strategy under UNE-ISO/IEC 42001:2025: 12 opportunities identified, 7 cases evaluated and 3 prioritized.
- 42 analytics products in Power BI for administrative and clinical leaders: 20 leaders of 15 processes and about 75 users.
- Institutional data governance and quality, under Colombia's habeas data regime and Law 1581.
- Process-based control dashboards and improvement plans: close to 60% less effort preparing information.
- 23 instruments of the AI management system, 8 finished, and an ISO 42001 expert agent to review them.

Data Strategy Lead

Vesting — automation-agents startup

2023 — 2025

- Designed and built from scratch the data ecosystem for AI-agent analytics on Microsoft Fabric (big data + data warehouse + distributed processing): 12 clients, 120 tables and 1,000 events per day.
- Defined the data governance to integrate client and system data, with each client isolated in its own workspace.
- Built real-time monitoring for the agents in production: up to 23 monitored at once.
- Documented the replicable 11-stage core process used to build the 27 agents in the inventory.

Senior Analytics and Reporting Analyst

Banco Pichincha

2023

- Led a 5-person BI team: dashboards adopted by 50+ users, driving +25% in decision-making.
- ETL process optimization in Power Query: -35% in analysis times.
- Churn, delinquency and risk models with scikit-learn: >90% accuracy and +35% in predictions.
- Semantic model optimization with DAX Studio and Tabular Editor.
- Co-led the area's data governance.
- Analytics training program for 12 professionals: +20% productivity in preparing and using information.

Post-Operational Analysis

C&M Consultores (TransMilenio)

2021 — 2022

- Drove BI adoption across operations: +35% efficiency with 25+ key users.
- ETL that unified five heterogeneous sources (fare collection, fleet and GPS, scheduling, incidents and user complaints): +70% in analysis precision and speed.
- Automation scripts with validations and visible exceptions: -40% in repetitive tasks.
- Strategy sessions with SITP leadership: +25% in indicators.
- Demand forecasting with scikit-learn by route and time slot, ten months in use: +20% system performance.

PROFILE

Industrial Engineer (Javeriana) with ten years of experience —from process engineering to data and AI— turning operational data into business decisions, across banking, transport, logistics and healthcare. Today I lead AI adoption and governance: the strategy and the ISO/IEC 42001 implementation. Before that I designed from scratch the data strategy and platform of an AI-agent startup — Microsoft Fabric and a replicable process to design and monitor agents— and built BI and predictive analytics in banking. Microsoft-certified as a Fabric Analytics Engineer (DP-600), on the way to AI-103 and AI-300. More on my site: henryrincon.com.

EDUCATION

Industrial Engineering, emphasis in Data Analytics Intelligence

Pontificia Universidad Javeriana · Bogotá

2009 — 2016

Undergraduate studies in Industrial Design

Pontificia Universidad Javeriana · Bogotá

2011 — 2016

Intensive English course and IELTS certification

Cambridge International College · Melbourne, Australia

2013 — 2014

CERTIFICATIONS

- Microsoft Certified: Fabric Analytics Engineer Associate (DP-600) (2024)
- Microsoft Certified: Azure AI Apps and Agents Developer Associate (AI-103) (in progress)
- Microsoft Certified: Machine Learning Operations Engineer Associate (AI-300) (in progress)
- IBM: Applied Data Science with R (2024)
- IBM: Data Science Professional Certificate (2022)
- IBM: Python for Data Science (2022)
- IBM: SQL for Data Science (2022)

Information Systems Analyst

Cafam

2020 — 2021

- Led a 20-person team —14 from Cafam and 6 from Oracle— through six months of WMS implementation testing: -25% errors and +15% operational efficiency.
- Modeled the process in BPMN with Bizagi and simulated dispatch in FlexSim before testing.
- Operational-control BI: +50% precision for 15+ users.
- VBA integrations with the WMS: +15% automation and -50% data errors.
- SQL data quality with an 80-20 reconciliation by medicine: +20%.

Operations Analyst

C&M Consorcio (TransMilenio)

2018 — 2020

- Data-driven supervision of about 150 routes from 10 concessionaires, cross-referencing five sources: fare collection, fleet and GPS, scheduling, incidents and user complaints.
- Performance dashboards and reports —two weekly and one monthly— traceable down to the operational event.
- Automation with Excel, VBA and SQL: at least -40% in processing time.
- The system's statistical memory in SQLite: the operation's history, week by week.
- Audit of compliance with operating protocols, with indicators carrying contractual consequences.

Operations Coordinator

Ceinfes

2017 — 2018

- KPIs for scheduling, logistics and digitalization of mock exams for more than 100 schools a year; weekly reports to the board.
- Coordination of about 40 people across three fronts and some 50 exam proctors.
- Balancing the digitalization line: about 250 sheets per shift across two scanning stations.
- A VBA macro that optimized teacher scheduling with explicit constraints.
- Transition to process-based management with BPMN, Kanban and Scrum.

Process Engineer

Inglopres

2016 — 2017

- Led the implementation of the Odoo ERP to integrate the processes of a heavy-machinery rental and sales company, with a fleet of about 120 units.
- Designed in SQLite and SQL the analysis databases the operation did not have.
- Work study with fatigue allowances for sustainable time standards.
- Supply chain and quality assurance under ISO 9001:2015.
- A team of 12 people with 95% client satisfaction.

SKILLS

AI & ML

Azure AI · RAG & agents — being built in the open (see the showcase) · n8n · PyTorch · TensorFlow · Scikit-Learn · NLP

Data platform

Microsoft Fabric · Direct Lake · RLS (row-level security) · ETL · Data modeling · SQL · Power Query · DAX · Google Cloud — exploring

BI & decision-making

Power BI · Data storytelling · KPIs · Data governance & quality · Shiny (R) · Tableau · Looker Studio

Engineering

Python · Git/GitHub · CI/CD — this site runs on it

Processes & simulation

BPMN (Bizagi) · Discrete-event simulation (FlexSim) · Time study and line balancing · Kanban and Scrum

How I work

Leading teams of up to 20 people · Communication with boards and senior leadership · Process-based management and agile methods · User training and adoption · Reproducible documentation and handover · Multidisciplinary teamwork · Professional English (B2)