# Andrés Ruiz Montañez

**CURRICULUM VITAE**

M.Sc. in Project Management and Data Science - ES/EN/FR/DE
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## Executive summary & core competencies

Technology and product leader with 15 years of experience building and scaling AI and data-driven companies across Europe and Latin America. Track record in digital transformation, technology modernization, and AI adoption, delivering measurable business results. Combines strategic vision with deep technical expertise to align product, technology, and commercial goals for sustainable growth. Hands-on builder capable of designing and delivering end-to-end products from concept to deployment. Experienced entrepreneur and full-stack developer with a record of founding, advising, and leading multiple startups from concept to scale.

**Core competencies:** Technology Strategy & Leadership · Software Architecture & Scalable Systems · Product & Project Management · Applied AI & Advanced Data Analytics · Cloud & DevOps · Entrepreneurship & Business Growth

## Professional experience

**Founder at ARM Consulting** Apr 2026 – Present, Berlin DE

ARM Consulting is my independent practice for AI, data and software engineering.

- Built a fully automated AI pipeline for a VC in Berlin: RAG, embeddings and AI agents that validate new venture ideas against the firm's framework and answer the team on Slack, Telegram and WhatsApp
- Built an operating system for institutional investors: it extracts and standardizes fund documents into more than 200 comparable fields and traces every value to its place on the page. Neurosymbolic AI checks the result: a rule engine decides on each value and the LLM explains
- Created a digital theater to learn German: the learner plays different roles in scripts created dynamically from more than 3,000,000 lexemes and from the vocabulary the learner adds each day

**Chief Technology and Product Officer at Countercheck GmbH** Jun 2024 – Mar 2026, Berlin DE

Countercheck (Series A) develops technology to detect, trace, and eliminate illicit goods across global supply chains. Member of the management team, reporting to the board.

- Led technology and product with a team of 15–20 people
- Managed hybrid (cloud/on-site) highly secured systems processing 3B+ parcel images in real-time, at 10 sites in 7 countries
- Created new revenue stream via AI framework for large-scale high-speed logistics and computer vision
- Turned the core computer-vision technology into Vision Suite, a new product for parcel sortation centres. Sold to BEUMER Group
- Expanded TAM by packaging core tech for deployment at Customs organizations
- Built certification, security governance, and due diligence processes and documentation (GDPR, ISO 27001, SOC 2)
- Joint liquidator since Jun 2025 (ongoing): ran the sale of the remaining assets and the orderly wind-down; deletion from the commercial register is pending

**Chief Technology Officer at ALPHA Augmented Services GmbH / AG / Inc.** Aug 2022 – May 2024, Berlin DE

Alpha Augmented Services, privately funded, develops AI-driven logistics and sustainability optimization software.

- Scaled remote-first tech team 3X in under a year with strong Agile delivery across LatAm, EU, and MENA
- Transformed isolated prototypes into a cohesive, revenue-generating SaaS product suite and APIs
- Led in-house development of proprietary optimization algorithms and 3D render engine driving profitability
- Established a cloud-native infrastructure and fully automated CI/CD, and QA pipelines for rapid deployment

**Entrepreneur in Residence at Beam GmbH** Aug 2021 – Jul 2022, Berlin DE

VC and company builder backed by the BEUMER Group, focused on developing logistic-technology startups.

- Designed AI-driven predictive analytics models optimizing parcel flow, sustainability, and capacity utilization
- Designed platform to improve margins and sustainability via data-based micro-fulfillment strategies
- Designed AI-driven decision-making and risk management for supply chain law adherence (Lieferkettengesetz)
- Built AI automations for the company's daily work, incl. automatic validation of new venture ideas

**Fractional Chief Technology Officer at AEQUALES SAS / SAC / SA de CV** Aug 2018 – Jul 2021, Berlin DE

Aequales operates in Colombia, Mexico, and Peru helping organizations close their gender gaps with technology and data. Engagement through Axioma Estudio.

- Re-architected and modernized systems to service-oriented, decoupled architecture for scalability and reliability
- Designed and deployed the company data warehouse and data pipelines; AI maturity raised from 12% to 22%
- Implemented Scrum, OKR, and performance metrics organization-wide, including own remote team (5+ countries)
- Supported executive leadership in crisis management during COVID-19 ensuring business continuity

**Technology Consultant & Lead Developer** Jan 2016 – Jul 2018, Bogotá COL
Engagement through Axioma Estudio.

- Built initial data systems and architecture powering the PAR gender equity ranking platform (900+ companies per year)
- Established groundwork for company's long-term technology strategy

**Technical Co-Founder & Advisor at Several Ventures** Jan 2017 – Jul 2021, Bogotá COL
Provided technical architecture, product strategy, and software development to startups in exchange for equity.
Seed-funded: Hero Kitchens · Bootstrapped: Local Hero, Catacoa, Paqua

**Founder and CEO at Axioma Estudio SAS** Sep 2012 – Jul 2021, Bogotá COL
Axioma is a technology and data consultancy focused on digital transformation, AI, and custom software development.

- Founded and scaled the company from inception to 120+ completed projects, personally leading development
- Architected and built a proprietary CMS framework, reducing the avg. development time by 70%
- Architected and built tenant-aware SaaS platform, Datawarehouse & ETL, and an in-house E-commerce engine

## Education

**M.Sc. in Project Management & Data Science (grade 1.03) at HTW Berlin** Oct 2018 – May 2021, Berlin DE
Thesis: Implementation of Machine Learning Projects in the Business Environment. An Empirical Case Study About Organizational Readiness.

**B.Sc. in Architecture at the Universidad de Los Andes** Aug 2005 – Mar 2012, Bogotá COL

**Bachillerato at Colegio Helvetia (Swiss School)** 1993 – Jul 2005, Bogotá COL

## Languages

**Spanish:** Native · **English:** Full Professional (TOEFL) · **French:** Full Professional (DALF) · **German:** Intermediate (B2+)

## Volunteer & other experience

**Core Mentor for the Emerging Tech Program at Rockstart** Oct 2020 – Oct 2022, Berlin DE (remote)
Mentor for Rockstart-accelerated, early-stage startups across ML/AI, IoT, and edge.

**Graduate Research Assistant at Hochschule für Technik und Wirtschaft Berlin** Apr 2019 – Jul 2020, Berlin DE
Design and development of an ETL pipeline and Dashboard for processing and analyzing candidate applications data.

**Project: Forecasting River Flow in Kazakhstan** Jan 2020, Berlin DE
Worked with Dr. Anastasia Lobanova, researcher at Potsdam Institute for Climate Impact Research.

**Speaker at PyData Berlin** Jun 2019, Berlin DE
Talk: Introduction to Time Series Analysis & Forecasting.

**Assistant Teacher at the Universidad de Los Andes** 2010 – 2012, Bogotá COL
Building Information Modeling (BIM), Computer Assisted Design (CAD) and 3D Modeling & Rendering.

**AutoCAD Teacher at Fundación Escuela Taller de Bogotá** May 2014 – Aug 2014, Bogotá COL
Technical training targeting young adults in vulnerable situations, teaching via a “learn by doing” model.

## Personal interests

Self-taught and continuously learning, with a strong belief in open knowledge and the internet as an engine for progress. Passionate about the transformative power of technology and its socio-economic impact; especially automation, AI, VR/AR, and Big Data. Certified Rescue Scuba Diver (PADI), avid traveler, creative cook, and committed mentor.

## Technical background and hands-on experience

**Systems Architecture:** Extensive work with service-oriented and event-driven architectures supporting high-throughput, real-time processing. Focus on resilience, scalability, and modularity.

**Product Delivery & Engineering Leadership:** Track record building high-performance teams, enabling rapid prototyping, and driving value-first development across organizational stages. Extensive experience with Agile development and organizational maturity.

**Software Engineering and SaaS:** Delivered multi-tenant SaaS systems, E-commerce platforms, and custom applications for several industries and across multiple tech stacks. Directly involved in development in 100+ successful projects and strong in API design, backend architecture, and full-stack development. *(PHP/Laravel, Django/React, Ionic)*

**LLMs, NLP & Automation:** Integrated LLMs into applications and workflows, including agent-based systems, RAG pipelines with page- and paragraph-level provenance, evaluation harnesses, MCP-compatible tooling, and quantized deployments. *(LangChain, OpenAI, Anthropic, Gemini, Ollama, n8n, Docling, PostgreSQL/pgvector, Claude Code)*

**Computer Vision & Deep Learning:** Delivered large-scale imaging pipelines processing billions of images with strict security, latency, and reliability constraints. Extensive experience with segmentation, classification, and detection models. Strong grounding in CV architectures and optimization for production. Familiar with regulated environments and safety-critical workflows. *(PyTorch/TensorFlow, OpenCV, YOLO, EasyOCR, CoatNet, Docker)*

**Machine Learning & Applied Research:** Built production ML models and custom algorithms for forecasting, optimization, and analytics. Strong in data mining, feature engineering, and time series. Experience transforming prototypes into reliable, commercial-ready ML products. End-to-end MLOps experience from model development to inference APIs. *(NumPy, pandas, scikit-learn, statsmodels, Matplotlib, FastAPI)*

**3D, Simulation & Interactive Systems:** Developed 3D rendering engine and physics-driven components for shipments optimization and visualization. Built interactive tooling using Unity and Three.js. *(C#, .NET/Blazor, TypeScript/JavaScript, WebAssembly)*

**Data Engineering & Infrastructure:** Architected ETL pipelines, event-driven data flows, and large-scale analytic environments. Experience with DWH, dashboarding, and search/log pipelines. *(Airflow, BigQuery, Tableau/Power BI/Looker, SQL, NoSQL, ELK)*

**Security, Governance & Compliance:** Experience preparing investor data rooms, leading due diligence, and aligning with GDPR, ISO 27001, and SOC 2 requirements. Implemented structured risk-management practices.

**Cloud & DevOps:** Hands-on across all major clouds: AWS, GCP, and Azure. Designed cloud-native infrastructures with fully automated CI/CD pipelines.