

Lead Data Engineer & Data Architect

Paul Tuillet

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Professional Profile

Lead Data Engineer and Data Architect with end-to-end experience: autonomous design and deployment ("founding engineer") of a high-performance Data Lakehouse. Complements this technical expertise with rare experience in large-scale data analysis and investigation of unstructured sources for international organizations (BBC, Le Monde, ISW). Seeking a Lead or Data Architect position to industrialize data platforms and high-stakes AI projects.

Professional Experience

Groupe BZ - Lead Data Engineer

Rouen, France | Apr. 2025 – Aug. 2026

- Full autonomy in the design and deployment of a high-performance data platform using a "founding engineer" approach: from architecture to production.
- Implementation of a self-hosted Data Lakehouse (Docker, MinIO) following a medallion architecture, significantly optimizing the company's software budget.
- High-speed data processing via DuckDB and Polars; reliable pipeline orchestration using Dagster.
- Development of secure internal business applications (FastAPI, Streamlit) to replace expensive SaaS solutions, reducing dependency on third-party vendors.

ASAP - Product Owner & Data Analyst **FREELANCE**

Le Havre, France | Nov. 2024 – Dec. 2025

- End-to-end management of a market study and data strategy targeting over 450,000 potential customers (France and Benelux).
- Design and optimization of analysis pipelines for "Airsoft Connect" marketing campaigns, increasing the conversion rate to 42%.
- Data modeling for the deployment of an acquisition strategy on a European scale.

Cybersecurity Company - Data Analyst & OSINT Investigator

Moscow, Russia | Dec. 2022 – Feb. 2023

- Audit of massive global data flows within a Blue Team, OSINT expertise.
- Proactive detection and identification of cybersecurity vulnerabilities to mitigate operational risks.
- Cross-functional technical collaboration to resolve critical vulnerabilities and strengthen defense protocols.

LePont Learning - Teacher & Data Program Assistant **FREELANCE**

Levallois-Perret, France | May 2022 – Aug. 2024

- Facilitated Python and Data Visualization (Power BI) courses for 150 students (Audencia) and 80 executives (KIKO Milano).
- Technical mentoring for 380 students transitioning to data careers (95% satisfaction rate).
- Created educational content aligned with data industry standards.

Wildberries - Data Engineer Consultant **FREELANCE**

Moscow, Russia | Mar. 2022 – Mar. 2024

- Design and deployment of complex predictive models on high-volume e-commerce data.
- Processing large-scale data streams to identify consumption trends and optimize overall platform performance.
- Customer segmentation analysis to refine marketing targeting and increase user engagement.

BBC & LeMonde - Lead Data Analyst & OSINT Investigator **FREELANCE**

Tallinn, Estonia | Feb. 2022 – Oct. 2022

- Processing and analysis of large databases and unstructured sources for the BBC, ISW, and Oryx.
- Development of internal Python tools for real-time analysis of high-stakes geopolitical data.
- Generated reliable intelligence reports usable by journalists under tight deadlines.

Keen Software House - Senior Server Administrator **FREELANCE**

Prague, Czech Republic | Aug. 2018 – Feb. 2022

- Administration and deployment of a bare-metal infrastructure of 35 dedicated servers, managing peaks of 24,000 simultaneous users.
- Improved performance by 180% through advanced optimizations under Proxmox.
- Design and implementation of an in-game economic system based on user behavioral data analysis.

Personal Projects

cyberattaque.fr - Lead OSINT Analyst

Independent cyberattack observatory. Real-time monitoring and alerts to reveal current threats and anticipate future ones. Creation of maps, timelines, intensity analyses, and statistics (targets, attackers, action patterns) via monthly or quarterly reports to inform decision-makers and raise public awareness.

Tresor Interactive - Project Manager & Lead Developer

Led the development of "Multimodal," supervised the creation of "Robert's Out." Expertise in team leadership, creative direction, and iterative design methodologies.

Space Engineers France - Community Manager

Managed and maintained an active community of 2,000 members. Close collaboration with developers for the launch of Space Engineers 2.

Hexengard - Founder & Lead Developer

Responsible for product development, architecture, and maintenance. Solo development, full product lifecycle management + Support.

Technical Skills

Architecture & DataOps

- Lakehouse, DataOps, FinOps, Sovereign Platforms, Apache Airflow, dbt, Dagster, SQLMesh, GCP, AWS

Infrastructure & CI/CD

- GitLab CI, GitHub Actions, Terraform, Ansible, Docker, MinIO / S3, Linux

Data & Modeling

- DuckDB, Polars, Metabase, Iceberg, Medallion Architecture, Kimball, Data Vault

Languages & Dev

- Python, SQL, Shell, FastAPI, Industrialization, Reliability

IA - R&D

- Pinecone, Vector DB, LLM Integration, RAG

Leadership & Product

- Technical Roadmap, Mentoring, Governance, Trade-offs, Standards

Sectors & Mobility

Intervention Sectors

- Crisis, E-commerce, Banking & Finance, Media, Agriculture, Logistics

Availability & Mobility

- Full or partial remote work
- Mobile: Normandy (14, 27, 76), Île-de-France
- International

Languages

- French: Native
- English: Bilingual
- Russian: Basic (can improve)
- German: Can improve