

ADAM JALAL

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PROFILE

Data and Cloud Engineering student on a dual-degree programme (EPITA / Griffith College), specialised in building ETL pipelines, vector search (FAISS) and MLOps deployment. Founder of Exactis, a B2B SaaS reconciling industrial production data against ERP systems.

WORK EXPERIENCE

Founder

Sept 2026 – Present

Exactis – Paris, France

- Building an AI-assisted B2B SaaS that reconciles factory production data against ERP (SAP) reference data, replacing manual Excel cleaning in industrial SQDC reporting.
- Designed and deployed the reconciliation engine (TypeScript, Vercel serverless): Jaro-Winkler similarity ranks candidate matches while exact-match-only validation guarantees zero silent errors, with near-matches routed to human review.
- Diagnosed that pure similarity scoring silently auto-validated transposed product codes (98.3% match on a wrong reference) and re-architected the decision logic to close it; covered by a regression test suite.

Data Engineer Intern

Apr 2026 – Jul 2026

Lesieur Cristal – Casablanca, Morocco

- Architected a multi-source data pipeline (Evocon MES API, SAP ERP via MB51, Excel) automating the weekly SQDC performance review and eliminating over 1 hour/day of manual Excel compilation.
- Diagnosed and resolved a critical DAX aggregation bug (an erroneous 2,054% KPI) by redesigning a Power BI star-schema model (Fact_Arrets + 3 dimension tables) with DIVIDE()-based measures, delivering mathematically accurate reporting.
- Authored a Business Requirement Document for Group Avril's IT department to formalise SAP data access (movement codes 101/102/261/262), targeting >95% data reliability and full automation of the performance canvas.

R&D Data Scientist Intern

May 2025 – Jun 2025

AptiSkills – Levallois-Perret, France

- Cleaned and structured 74 composite materials (2,560 raw rows) from the Sandia MHK database into a relational SQLite model (Matériau/Résine/Essai).
- Built a scikit-learn regression pipeline predicting maximum stress with 88% explained variance (R^2).
- Implemented an L2 FAISS vector index for sub-second similarity search across 1,279 material vectors, cutting manual lookup time from hours to minutes, and delivered it via an end-to-end Streamlit app.

TECHNICAL PROJECTS

- NYC Taxi ETL** (Data Engineering) – Built and orchestrated (Prefect 3) an ETL pipeline processing 9.17M+ NYC taxi records; cut PostgreSQL load time by 82% (~51 to ~9 minutes) via chunked batch inserts and index/VACUUM management; automated data-quality checks and KPI dashboards.
- CloudPredict** (MLOps Architecture, 2-person team) – Owned the cloud/DevOps side: multi-stage Docker builds cutting image size by 60%; Kubernetes deployment with HPA autoscaling (2–10 pods, 50% CPU threshold) and RBAC-scoped service accounts; observability stack (Prometheus, Grafana, Loki).
- Real-Time Shop Data Streaming** (2-person team) – Owned the platform side: built the Kafka/PostgreSQL backbone, docker-compose orchestration and observability stack (Prometheus, Grafana) for a real-time sales pipeline, plus an admin API exposing stats, stock levels and low-stock alerts (<10% threshold).

LEADERSHIP & INVOLVEMENT

- Student Ambassador**, EPITA, Paris (Nov 2025 – Jun 2026) – Represented EPITA's AI & Management programmes to prospective students at key events, driving engagement and academic visibility.
- Activist**, Amnesty International France, Paris (May 2025 – Sept 2026) – Supported human rights awareness campaigns and citizen mobilisation efforts over a 16-month period.
- Member**, “Carré du Dean”, ISG, Paris (Jan 2025) – Co-authored strategic business reports on Toyota, LVMH and OpenAI; drafted an international-partnership MoU.
- Startup Immersion (Shadowing)**, Soro, Station F, Paris – world's largest startup incubator (May 2025) – Observed DeepTech growth dynamics and Agile methodologies firsthand within the Station F ecosystem.

EDUCATION

BSc (Hons) in Computing Science – Year 3, Dual Degree

Sept 2026 – Jun 2027

Griffith College – Dublin, Ireland

- Key modules: Linux System Administration, Concurrent Development, Relational Databases, Networks & Data Communications, Data Structures & Algorithms, Web Technologies.

Programme Grande Ecole

Sept 2024 – Jun 2027

EPITA – Paris, France

- Specialisation: Cloud Engineering, Machine Learning, Advanced Algorithms, Linear Algebra, Systems Architecture.

TECHNICAL SKILLS & CERTIFICATIONS

Programming & Scripting: Python, Java, SQL, Bash / Linux

Data & Cloud: PostgreSQL, MySQL, SQLite, SQL Server, Kafka, Prefect 3, FastAPI, Kubernetes, Docker, Git, CI/CD

AI, ML & Visualisation: NumPy, Pandas, Scikit-learn, FAISS, MLflow, Hugging Face, Power BI, Streamlit, Grafana, Prometheus

Certifications: IBM Data Engineering & Linux, AI & Law (Lund University), GDPR Foundations, Ethics & Governance of AI (WHO)

Languages: English (C1/Fluent), French (Native), Italian (Native), Arabic (Fluent Spoken)