

Antoine Royer–Bournelle

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PROFESSIONAL SUMMARY

Data Engineer with strong experience designing, deploying, and scaling **ETL pipelines**, integrating multi-source datasets, and modeling data for analytics. Skilled in **SQL optimization**, **Python**, and **cloud infrastructure** (AWS, GCP, Docker). Supporting analysts with reliable, well-documented data platforms and dashboards, and fostering a strong data culture across my current missions.

SKILLS

- **Data Engineering:** ETL pipelines, data modeling, orchestration (Mage), dashboarding (Looker, Superset)
- **Programming:** SQL, Python, Go, JavaScript, TypeScript, React
- **Cloud & Infrastructure:** Docker, AWS (S3, Redshift, Lambda), GCP (BigQuery, Cloud Storage), PostgreSQL, Git, GitHub Actions, Ansible
- **Languages:** French (Native), English (C2)

EXPERIENCE

- **SIRIS Academic** Barcelona, Spain
Data Engineer Aug 2024 – Present
 - One of two data engineers in a 50-person company, building data foundations and governance processes from the ground up
 - Developed and deployed **15+ ETL pipelines in Python**, automating ingestion and enrichment of institutional datasets (APIs, open data, NLP models)
 - Designed 2 and maintained 5 data platform using **Docker**, **GCP**, **PostgreSQL**, and **S3**, ensuring reliability and scalability
 - Contributed to internal orchestration repository with **Mage**, creating reusable pipeline patterns and improving maintainability
 - Partnered with analysts and PMs to design **Looker** and **Apache Superset** dashboards, enabling complex analytical models and data-driven decisions
 - Authored technical documentation to accelerate onboarding and knowledge transfer
- **Dataiku** Paris, France
Software Engineer - Intern Mar 2023 – Sept 2023
 - Built a platform feature with **DuckDB** allowing analysts to join datasets efficiently
 - Developed backend services in **Node.js/TypeScript** within a microservices architecture
 - Contributed to frontend workflows in **React/Redux**, improving usability of data pipelines
- **Capgemini** Paris, France
Python Developer - Intern Aug 2021 – Jan 2022
 - Developed predictive models for **time-series forecasting** in financial datasets using Python
 - Integrated a real-time deep learning pipeline with **YOLOv4**, enhancing automated surveillance systems

PROJECTS ON GITHUB

- **DevOps** Deployed a full-stack application using **Docker**, **GitHub Actions**, and **Ansible**
- **Bit stradamus** Developed a backend project in Node.js, integrating ML models with Python, in a 5-person Agile team
- **Dofus.js (In Progress)** Building a scalable WebSocket infrastructure in Go; containerizing the full-stack application with Docker; frontend in React

EDUCATION

- **Ecole Polytechnique Féminine** Paris, France
Software and Data Engineering - AI 2020 – 2024
- **Universitat Politècnica de Catalunya** Barcelona, Spain
Data Science and AI – Python, R, Algorithms 2022 – 2023
- **CPGE (Preparatory Classes for Engineering Schools)** Paris, France
MPSI - PSI: Advanced Mathematics and Physics 2017 – 2020