Pierre Aumjaud

Data Analyst

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French Citizen

About Me

Data-focused professional transitioning from an academic career after a four-year period of dedicated skills development. Proficient in **data engineering**, **data analysis**, and **data science**, with a proven ability to **build and deploy machine learning models**.

Skills

- **Python**
  Scikit-learn • Pytorch • NumPy • Pandas • Jupyter
- **Databases**
  SQL • MySQL • postgreSQL
- **Data Visualisation**
  Tableau • Streamlit • Matplotlib • Seaborn • Grafana • Prometheus
- **Data Integration**
  dbt • Snowflake • Airflow • Airbyte
- **DevOps**
  Git • Docker • Unit tests (Pytest) • CI/CD (Github Actions)
- **Web Development**
  HTML • CSS • Flask • Wordpress • Jekyll

Languages

French – C2 ●●●●●
English – C1 ●●●●○
Spanish – C1 ●●●●○

Socials

linkedin.com/in/pierreaumjaud
github.com/PierreExeter
pierreaumjaud.com

Work Experience

2021 – 2025 Career Transition
- Comprehensive preparation for a career in data, with focused training in data engineering, data analysis and data science.
- Developed a project portfolio showcasing dashboards, predictive models and end-to-end data pipelines.
- 20 volunteer work experiences in 8 different countries.

2017 – 2021 Marie Curie Research Fellow — University College Dublin, Ireland
- Awarded a €245k grant to develop ML solutions for manufacturing optimisation.
- Implemented an ML-based anomaly detection system, reducing unplanned downtime by 15%.
- Developed a reinforcement learning framework to train robotic manipulators.

2016 – 2017 Postdoctoral Research Fellow — University College Dublin, Ireland
- Optimised composite structures via and evolutionary optimisation, achieving a 20% improvement in stiffness-to-weight ratio.
- Developed numerical models (FEA) to predict complex mechanical behavior, validating against experimental data.
- Applied regression models to the simulation models in order to identify optimal material parameters.

2012 – 2015 Teaching Assistant — University of Exeter, UK
Modules taught : solid mechanics, computational engineering, Computer-Aided Design.

Projects Portfolio

Link to Project	**MLOps Pipeline Deployment** **Skills** : Docker, Flask, Azure, Github Actions
Link to Project	**Performance Monitoring with Grafana** **Skills** : Grafana, Docker, Flask, Python
Link to Project	**Deployment of a Large Language Model Web Application** **Skills** : Python, LLM, Streamlit, Docker
Link to Project	**Customer Data Cleaning with SQL** **Skills** : MySQL, data cleaning, Exploratory Data Analysis
Link to Project	**Data Visualisation with Tableau** **Skills** : Tableau, Exploratory Data Analysis, Business Intelligence
Link to Project	**Reinforcement Learning for Robotic Arm Control** **Skills** : Python, reinforcement learning, robotics, Docker, Pytorch

Education

Academia

2012 – 2016 PhD Mechanical Engineering — University of Exeter, UK
Numerical modelling and computational optimisation of vibrating aerospace structures.
Focus: *evolutionary optimisation, exploratory data analysis, data visualisation, Python, numerical analysis.*

2009 – 2012 MSc Mechanical Engineering — SUPMICROTECH-ENSMM, France
Modules: *mechanical engineering, computer science, engineering mathematics, electronics.*

2007 – 2009 BSc Engineering – 'classes préparatoires' — Lycée Arago, France
Modules: *mathematics, physics, chemistry, engineering*

Certifications

2025	Cloud Computing Essentials with Azure	Analyst Builder
2025	Tableau for Data Visualization	Analyst Builder
2025	MySQL for Data Analytics	Analyst Builder
2025	Build and share a containerized app	Docker
2024	Reinforcement learning specialisation	Coursera
2021	Machine learning specialisation	Coursera
2021	Introduction to Pytorch	Pytorch
2021	Introduction to Data Analysis	Udacity