REY Aubin

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Data Engineer & Scientist Consultant

AIRBUS HELICOPTER / ALTEN

Master of Science, Double Degree in Computer Science

GEORGIA INSTITUTE OF TECHNOLOGY

Generalist, Responsible and Innovative Graduate Engineering Diploma

INSTITUT POLYTECHNIQUE TELECOM SUDPARIS

OBJECTIVE

Dynamic and innovative Data Science professional ready to drive transformative insights.

EDUCATION

2022-2023 — **GEORGIA INSTITUTE OF TECHNOLOGY** *METZ – ATLANTA*
Master of Science in Computer Science (GPA: 3.87/4.0) **(FRANCE – USA)**
Courses: Machine Learning (Specialization), Deep Learning, MLP, Visualization, Computer Vision, Robotics.

2020-2022 — **TELECOM SUDPARIS** *EVRY* **(FRANCE)**
General Engineering Diploma in Networks, Mathematics and Signal Processing
Courses: Statistics (Specialization), Big Data, Databases, Data Mining, Scientific Computing.

2018-2020 — **CLASSE PREPARATOIRE JEAN PERRIN** *MARSEILLE* **(FRANCE)**
PCSI / Rank: 1/48 then PSI* / Rank: 2/44

PROFESSIONAL EXPERIENCE

2024 - — **DATA ENGINEER & SCIENTIST CONSULTANT, AIRBUS** **MARIGNANE (FRANCE)**
Orchestrating Data Excellence with ALTEN
Retrieving, modeling, and ensuring the quality of data within Airbus's systems, enabling efficient AI decision-making.
Unsupervised Learning, Forecast Analysis, Worldwide Parts Segmentation (SAP, APS, Skywise, Spotfire, Kmeans)

2023 **6 MONTHS** — **DATA SCIENTIST, WORLDLINE** *LYON* **(FRANCE)**
Bot Detection and Invisible Human Behavior Authentication
Revolutionizing online security through the development of a sophisticated bot detection system exploiting Behavioral Biometrics. Enhanced User Experience, CI/CD, Elevated Security Standards, Advanced Algorithm Development (GAN, TSGAN) and State-of-the-Art Classification (ResNet, Inception, LSTM).

2021 **2 MONTHS** — **MACHINE LEARNING INTERN, CANCER RESEARCH CENTER OF MARSEILLE** *MARSEILLE* **(FRANCE)**
Testing Methods for Classification, Clustering and Annotation of Stem Cell Data
Spearheading the evaluation of cutting-edge Machine Learning methods including Seurat Transfer Learning, CaSTLe, and ACTiNN. Provided comprehensive insights and recommendations to the research team. More information

2017 **1 WEEK** — **ENGINEER TRAINEE, ORANGE LABS** *LANNION* **(FRANCE)**
Discovery of the work of a developer, an ergonomist, a tester and a data scientist.

PROJECTS

GEORGIA INSTITUTE OF TECHNOLOGY *METZ* **(FRANCE)**

2024 — **Enhancing Audio-Language models** through Self-Supervised Post-Training with Text-Audio Pairs.
Introducing TeminAL, a two-stage temporal instillation method for contrastive Audio-Language Models (ALMs), boosting temporal understanding on ESC-50 while maintaining strong performance on zero-shot tasks. Paper available

2023 — **Text-to-Speech incorporating emotions** using a hand-made dataset. Innovated multi-speaker capabilities to simulate diverse conversations, improving realism and contextual relevance (Grad-TTS, Diffusion, GAN) More information

2022 — **Machine-learning automation of toad detection** for wild-life monitoring. Detection and counting of passages in a tunnel (Detectron2, chose of metrics, prediction) More information

2022 — **Data Engineer End-to-End Project on Online Transactions**. SQL Database Managment, Full Pipeline with Azure (Data Factory, Data Lake Gen2, Databricks, Active Directory, Key Vault, Power BI)

ECOLE TELECOM SUDPARIS (TSP) *EVRY* **(FRANCE)**

2021 — **Segmentation of the liver in scanner imaging** by a Convolutional Neural Network (U-Net, over-fit correction, supervised learning)

2021 — **Clustering of handwritten signatures for identity verification** using unsupervised learning (Kmeans, Kmedoids, KNN)

SKILLS

Languages:	**French**: native speaker	**English**: fluent (GRE, TOEIC, Bright Language)	**Spanish**: B1
Computer:	Microsoft Word, Excel and PowerPoint; Adobe Series.
Programming:	Python; MySQL ; Pandas; Pyspark; Docker; Jupyter; Keras; Pytorch; Databricks; Tableau.

INTERESTS

Hobbies:	Tennis (active player if the Queirel Club of Marseille, 8 years), acoustic and electric guitar (7 years), piano (self-study), computer-assisted music composition (Fl Studio).
Others:	Unveiling creativity and immersion in video games (Minecraft), embracing diverse cultures in London and in the United States, and contributing to humanitarian efforts at the Ste Bernadette Retirement Home Association in Marseille. Enthusiastic about design, I stay updated on design trends to deliver innovative projects.