



Antoine Lopez

Data Engineer / AI Engineer

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Professional Experiences

Data Engineer Intern

Société Générale

May – August 2025

Val de Fontenay, France

- Designed and assessed existing software testing strategies in a complex environment
- Proposed and implemented new testing strategies tailored to project requirements (Scala, Java, Spark, Apache Kafka)
- Developed a testing application for data ingestion into a cloud data lake, including the setup of APIs, an S3 bucket, and data processing pipelines (Python, REST API, AWS S3)

Software Developer Intern

VINCI Energies — Cloud, Communication and Services

January – February 2024

La Défense, France

- Developed a chatbot for client ticket management using Llama 2 (Python, Docker, Linux VM)

Junior Engineering Office Technician Intern

VINCI Energies — AXIANS

December 2022 – February 2023

Palaiseau, France

- Wrote procedures and processed Work Declarations and Notices of Intent to Commence Work
- Built an Excel database for managing customer contracts (Excel, VBA)

Education

ECE Paris

Engineering Degree - Specialization in Big Data / Artificial Intelligence — Cloud Option

Ajou University, Suwon (South Korea)

University Exchange Semester — Computer Science

2021 – Present

5th-year engineering student

French Baccalauréat (Maths, Physics-Chemistry, Computer Science) — with Mention Bien

2021

Projects

Big Data Processing with PySpark

- Large-scale analysis of NASDAQ stock data

Functional Programming for Data Extraction

- Scala-based development to analyze a full year of air traffic data

Database Management in SQL/NoSQL

- Used Oracle SQL, MongoDB, and Neo4j to study purchasing behaviors on an online platform

Multidisciplinary Artificial Intelligence Project

- Built a multi-model AI system for summarizing, categorizing, and translating news articles

Skills

Programming Languages : Python, Java, C, Scala, SQL

Big Data : Spark, Kafka, Hadoop, DataBricks, RDBMS, MongoDB, Neo4J

Visualization : Power BI, matplotlib/seaborn

Others skills : Networks, Robotics, Web

Cloud/DevOps : Azure, AWS, Docker, Git/GitHub

AI : ML, DL, GenAI, NLP, Recommended systems

Work Methodologies : V-Model, Agile

Languages

French: Native

Spanish: Intermediate

English: Professional

Korean: Beginner

Interests

Sports:

Running, Hiking, Cycling, Football, Tennis, Skiing, Climbing

Arts:

Drawing, Visiting museums and exhibitions

Video Games:

Following e-sports competitions