



# 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*

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

2021 – Present

*5<sup>th</sup>-year engineering student*

August 2023 – January 2024

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