# Antoine Lopez
## Data Engineer / AI Engineer

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## Professional Experiences

**Data Engineer Intern**  —  May – August 2025
*Société Générale*  —  *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**  —  January – February 2024
*VINCI Energies — Cloud, Communication and Services*  —  *La Défense, France*
- Developed a chatbot for client ticket management using Llama 2 (Python, Docker, Linux VM)

**Junior Engineering Office Technician Intern**  —  December 2022 – February 2023
*VINCI Energies — AXIANS*  —  *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**  —  2021 – Present
*Engineering Degree - Specialization in Big Data / Artificial Intelligence — Cloud Option*  —  *$5^{th}$-year engineering student*
**Ajou University, Suwon (South Korea)**  —  August 2023 – January 2024
*University Exchange Semester — Computer Science*
**French Baccalauréat (Maths, Physics-Chemistry, Computer Science) — with Mention Bien**  —  2021

## Projects

**Final Project X Alten**
- Develop an AI that optimize finite elements analysis (FEA)

**Multidisciplinary Artificial Intelligence Project**
- Built a multi-model AI system for summarizing, categorizing, and translating news articles

**Hackathon AWS organised by IPPON**
- Chaotic scenario : Maintenance and scaling of a platform on the AWS cloud

**Database Management in SQL/NoSQL**
- Used Oracle SQL, MongoDB, and Neo4j to study purchasing behaviors on an online platform

## Skills

**Programming Languages :** Python, Java, C, Scala, SQL
**Big Data :** Spark, Kafka, Hadoop, DataBricks, RDBMS, MongoDB, Neo4J
**Visualization :** Power BI, matplotlib/seaborn
**Certification :** AWS Academy Graduate - Cloud Foundations - Training Badge

**Cloud/DevOps :** Azure, AWS, Docker, Git/GitHub
**AI :** ML, DL, GenAI, NLP, Recommended systems
**Work Methodologies :** V-Model, Agile
**Others skills :** Networks, Robotics, Web

## 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