

ROUSSEAU MAXIMILIEN

4TH-YEAR ENGINEERING STUDENT IN AI

M1 engineering student looking for a 2-month internship in summer 2026 (June – August). Open to AI, data, or software engineering roles.

✉ maximilien.l.rousseau@gmail.com

📍 Angers

🌐 [linkedin.com/in/m-rousseau](https://www.linkedin.com/in/m-rousseau)

🚗 Driver's License (Category B)

EXPERIENCES

Professional Experience

Sybella SA — Software Engineering Intern

June–August 2025

- Built the data layer for an internal backtesting platform: a versioned market-data pipeline ingesting 80+ million rows in under one hour.
- Iterated through three architecture options (Apache Iceberg → Spark/Hive → PostgreSQL with SCD2) before landing on the one that fit the team's constraints.
- Worked closely with the team on each architectural choice, presenting tradeoffs and getting feedback before implementation.

Manufacture Française de Bougies — Production Intern

Feb–March 2023

- ERP deployment: gathered requirements from business teams and participated in meetings with vendors/software providers.
- Drafted and standardized the goods receiving and pallet transfer process (compliance control, discrepancy handling).

Selected Academic Projects

PatchCore — Anomaly Detection (Paper Reproduction)

- Worked on the technical reproduction of PatchCore (Roth et al., 2022) during the AI Challenge 2025, a one-day team challenge.
- Focused on the model implementation and the alignment with the official Amazon Science baseline.
- Final result on MVTec AD: 99.03% image AUROC and 98.01% pixel AUROC within 0.13 percentage points of the official reference.

MAS — Multi-Agent Real-Estate Evaluation

- Built a ten-agent system evaluating real-estate purchases in Aix-en-Provence, using six public data sources (DVF, IRIS, INSEE, etc.).
- Implemented the arbitration logic where two independent valuations are reconciled by an explicit decision agent.
- Covered with 161 unit tests + 24 tests against live public APIs, with traceability of each agent's reasoning.

FORMATION

2025-2026 - ESAIP ANGERS

- AI Specialization
- Deep Learning, RL, CV, NLP, XAI, GenAI

2025 — ERASMUS EXCHANGE

- GDE BUDAPEST (HUNGARY)

2024-2025 - ESAIP AIX-EN-PROVENCE

- Engineering cycle (Computer Science & Networks)

2022-2024 - ESAIP AIX-EN-PROVENCE

- Integrated Preparatory Program

2022 — Scientific Baccalaureate

SKILLS

- **Method:** Spec-driven development, AI-augmented coding (Claude Code, skills, agents)
- **Languages:** Python, SQL
- **Data / ETL:** PostgreSQL, ETL (batch & incremental)
- **AI / ML :** pandas, Jupyter, PyTorch, TensorFlow, scikit-learn
- **AI Domains:** Computer vision, NLP, Gen AI, multi-agent systems,
- **Tools:** Git/GitHub, Kaggle

LANGUAGES

- **French:** Native
- **English:** B2 (TOEIC 880)
- **Italian:** School level