

ASTRUC MATHIEU

LOOKING FOR END-OF-STUDIES INTERNSHIP (6 MONTHS)

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SUMMARY

Engineering student specializing in Artificial Intelligence and Big Data, with strong skills in programming, machine learning, and applied AI systems. Curious and motivated, I thrive on challenges and continuous learning.

Currently looking for a 6-month end-of-studies internship starting in early March 2026 (flexible start date), with the possibility to continue the journey afterwards. Eager to apply my expertise and contribute to innovative projects in AI and data science.

WORK EXPERIENCE

Intern Researcher - NTNU (Norway)

Internship 2025 - 3 months

Research internship in social robotics and real-time AI systems:

- Developed gesture-based human-robot interaction with the NAO humanoid robot.
- Built a conversational assistant on Reachy, leveraging LLM fine-tuning and GPU-accelerated pipelines to optimize response times, dialogue flow, and human-in-the-loop handling.
- Designed a Robot-Robot Interaction (RRI) loop enabling autonomous collaboration between NAO and Reachy.

Work expected to contribute to two scientific publications.

Data Engineer Junior - Banque de France

Internship 2024 - 3 months

- Data Scraping Automation: Developed Python scripts integrating Elasticsearch for large-scale data scraping, enhancing data processing for AI models like Retrieval Augmented Generation (RAG).
- ASR Integration: Utilized Automatic Speech Recognition (ASR) to convert speech to text, improving automated spoken data analysis.
- Workflow Automation: Leveraged Selenium for efficient data retrieval and workflow automation.

Electronic Technician - Via Electro

Summer Job 2023 - 3 months

- Installed and maintained electronic security, access control, image and sound systems for major clients and large-scale projects. Managed network and computer rack systems.

EDUCATION

ESAIP – Graduate School of Engineering - Angers, France

Sep 2021 - Jun 2026

- Engineer's Degree (5-year program)
- Specialization: Artificial Intelligence & Big Data
- Grade: ECTS A (highest, Top 10%)

Universidad Politécnica de Madrid (UPM) - Madrid, Spain

Sep 2025 - Feb 2026

- Exchange semester focused on advanced IT and data sciences, including machine learning, cloud computing, programming, and large-scale data processing architectures

SeAMK - Professional Studies in Technology - Seinäjoki, Finland

Jan 2024 - May 2024

- Exchange semester focused on IT and engineering courses, including C++, C#, embedded systems, object-oriented programming, artificial intelligence, electronics labs, and automation projects with Unity and TwinCAT.

Lycée Jean Perrin - Marseille, France

Sep 2018 - Jul 2021

- High level Athlete and Basket-Ball Training academy BAC - Specialty Physics and Human Sciences, Maths option

ADDITIONAL INFORMATION

- **Programming & Development** : Python, C#, C++, Linux shell, Version control (Git/GitHub/GitLab)
- **AI & ML**: LLMs, Fine-tuning, Computer Vision, Speech Recognition, Deep Learning, GPU-accelerated inference & real-time AI systems
- **Frameworks & Libraries** : PyTorch, TensorFlow, Hugging Face, scikit-learn, Keras, NumPy, Pandas, MATLAB/Octave, Azure AI
- **Project Management**: Jira, Git, MS Project, Adobe Suite, Office 365...
- **Languages**: English (C1), French (native), Spanish (B1)