Rémi JORGE

CONTACT

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SKILLS

Programming Languages
Python, Java, C, C++, C#, Swift, HTML/CSS, Javascript, TypeScript, SQL, NoSQL, Ocaml, Assembleur, R, Scala, Rust

Technologies/Frameworks
Tensorflow, Pytorch, Scikit-Learn, React, Angular, Express, FastAPI, Docker, JavaFX

Developer Tools
VSCode, IntelliJ, Pycharm, Unity, Github Copilot, Cursor, Windsurf

Project Management
AGILE, SAFe, SCRUM, GitHub, GitLab

Soft Skills
Problem-solving, Quick learner, Hard-working, TeamWork, Autonomous

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EDUCATION

Master of Engineering,
Computer Science & Management

Polytech Montpellier   2022-2025

Prestigious French engineering program combining advanced computer science and project management. Graduated top of the class.

Key courses: Data Analysis, Artificial Intelligence & Multi-Agent Systems, Deep Learning, Machine Learning, Software Engineering, Web & Mobile Application Development, Quantum Computing, Project Management, Economic

Intensive Preparatory Program,
Mathematics, Physics and Computer Science

Lycée Buffon, Paris   2019-2022

Highly selective three-year French preparatory program. Renowned for its academic rigor, depth in theoretical foundations, and intense daily workload often exceeding 10 hours, 7 days a week.

LANGUAGES

English   Fluent

French   Native

ABOUT

Passionate about real-world AI, I've applied machine learning to challenges like LLM-based diagnostics and anomaly detection in high-integrity environments. With solid foundations in software engineering and hands-on experience from academic and industry projects, I aim to build scalable, secure, and ethical AI systems. Currently finishing my Master's in computer science (graduating September 2025), I'm seeking a full-time opportunity to apply these skills.

EXPERIENCE

AI Intern – Aircraft Connectivity Diagnostics

Airbus, Toulouse, France   **Mar to Aug 2025**

- Developed an AI-powered diagnostic assistant to detect and classify anomalies in aircraft connectivity systems using operational log data (FOMAX, FSA-NG, ...)
- Built machine learning models and RAG pipelines with LLMs and FAISS indexing to identify abnormal patterns and support fault interpretation
- Focused on high-integrity data environments, working with cross-functional avionics teams to ensure model reliability, interpretability, and real-world deployment feasibility

Unity Developer & Project Lead Intern

Intelligent Systems Research Centre, Derry, Northern Ireland   **Jun to Aug 2024**

- Developed core FPS gameplay features and NPC AI in Unity using C#
- Managed a small Agile team across development sprints

Machine Learning Intern – Python Developer

Zumtobel, Dornbirn, Austria   **Jul & Aug 2023**

- Developed a RESTful API with FastAPI and deployed it using Docker
- Built ML models (K-Means, gradient descent, RNN, NLP) with Scikit-learn
- Implemented unit/integration tests and ensured system scalability

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SOME PROJECTS

Python Projects

Text Data Analysis Dashboard with Integrated AI Models: Created a dashboard for text data analysis using ML models (classification, clustering, search relevance). Tech stack: TensorFlow, Scikit-learn, Pandas, React, FastAPI, LLMs, NLP

LLM & Neural Network Architectures (From Scratch & With Libraries): Implemented core components manually, including backpropagation, positional encoding, multi-head attention, and byte pair encoding (BPE), demonstrating in-depth understanding of modern RNN and LLM internals.

Other AI Projects: Applied computer vision and transfer learning techniques (e.g., ResNet-based models) for image classification tasks. Conducted advanced EDA, feature engineering, and built ETL pipelines for structured and unstructured data. Automated License Plate Recognition System on Raspberry Pi.

Web Projects (Full-Stack)

AI-Powered Resource Automation Platform – Estory (Industrial Project): Integrated AI models to automate resource generation and built various full-stack web features. Tech stack: TypeScript, React, Node.js, SQL, Security

Cross-Platform Music App for Entrepreneurs (Industrial Project): Developed an AI-based recommendation system and optimized front-end components using Next.js. Ensured GDPR compliance and digital responsibility (DDRS).

C Project

Multi-Channel Instant Messaging App: Built a real-time messaging system using sockets and TCP/IP protocols with file management features.

See more on GitHub, LinkedIn, or my site