

# Mathis Lambert

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## EXPERIENCE

### Apprentice R&D Engineer

Free Pro

Sept 2024 - present | Marseille, France

- Design and implement advanced LLM-based workflows for customer-care automation using state-of-the-art models (Qwen, Llama, Gemma, etc.). Build agentic AI pipelines with tool calling, RAG, embeddings, ReAct planning, and safety/guardrail enforcement to ensure factual, policy-compliant outputs.
- Deploy and optimize large-scale AI models on specialized GPU clusters (NVIDIA H100, L40S) with vLLM and LlamaCPP.
- Contribute to full-stack software development, from frontends (React/TypeScript) and backends (NestJS, FastAPI) to AI microservices (Websockets, Python SDKs).
- Manage data infrastructure (Postgres, MongoDB, Qdrant) for knowledge-base orchestration and retrieval.

### Apprentice R&D Developer

Free Pro

Apr 2023 - Aug 2024 | Marseille, France

- Gained expertise in transformer models (LLMs, Embeddings), dataset design, and fine-tuning (SFT, DPO, LORA).
- Deployed AI workloads on HPC infrastructures (Nvidia H100 clusters) using Docker, Nvidia NGC, and Slurm.

### IZZY - Award-Winning Startup Project

PÉPITE Provence & UN 2030 Goals

Mar 2018 - Apr 2018 | Chicago, Illinois, USA

- Co-developed an intelligent system to combat driver fatigue for long-haul truck drivers.
- Awarded 2nd Place Jury Prize at the Start'up Competition in Chicago.

## EDUCATION

### CPE Lyon - Computer Science & AI Engineering

Software Engineering, Distributed Systems, Machine Learning

2024 - 2027

### Université de Toulon - Bachelor (BUT) Multimedia & Internet Technologies

Graduated with honors. Specialized in software development and interactive systems.

2021 - 2024

## SKILLS

Languages:	Python, JavaScript/TypeScript, Java, C/C++
AI/ML:	SotA Transformer Models, Fine-tuning, Computer Vision (YOLO, OpenCV), vLLM, LlamaCPP, Embeddings, Vector stores
Systems & Infra:	Linux, HPC/Slurm, Docker, CUDA environments, S3 storage
Web:	React, MongoDB, REST APIs, Websockets
Core:	AI & Machine Learning, Data Structures & Algorithms, Distributed Systems, Complex AI Workflows, Public Speaking, Agile Methodologies, Problem Solving

## CERTIFICATIONS

### Learning AI Through Visualization

Columbia University (NYC) | running

### Backend Development and APIs

freeCodeCamp | Jan 2023

### JavaScript Algorithms and Data Structures

freeCodeCamp | Nov 2022

## INTERESTS

Video Games, Handball, Motorbiking, Mechanics, Hardware Tinkering