

# LORENZO MAIURI

## AI Engineer & Software Consultant

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### SUMMARY

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Independent AI engineer and software consultant building production-grade systems for startups and B2B companies across Europe. 5+ years shipping AI, ML, and data infrastructure reaching 8M+ users, deep expertise in multi-agent architectures, RAG, LLM orchestration, and cloud-native delivery. Engineer first, consultant by necessity.

### PROFESSIONAL EXPERIENCE

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#### AI & Software Engineering Consultant

06/2025 – Present

*Independent*

Italy / EU remote

- Lead engineer on a multi-agent news chatbot for a major Italian publisher reaching 8M+ monthly readers (GCP-native, multi-agent streaming, <3s response time, 99.9% uptime)
- Architected multi-tenant RAG SaaS platform with AWS Bedrock, S3 vector storage, Terraform IaC
- Built document AI for mobile app: vision LLM pipeline with data residency guarantees
- AWS Cloud Developer Associate trainer for external corporate training program

#### Software Engineer & ICT Analyst

02/2022 – 06/2025

*Pharmaidea SRL*

Travagliato, Italy

- Built BERT-based GDPR classifier: 85% accuracy, 90% reduction in manual review time
- Led Oracle → PostgreSQL data warehouse migration: 100% licensing cost reduction, 20% query performance
- Integrated ML prioritization system into B2B platform: 20% faster processing for critical orders
- Apache Airflow migration, IT asset management, mobile app modernization (Xamarin → .NET MAUI)

### EDUCATION

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#### MSc Artificial Intelligence

2026 – Present

*Università degli Studi di Verona*

Verona, Italy

#### BSc Mathematics and Computer Science

2023 – 2026

*Università Cattolica del Sacro Cuore*

Brescia, Italy

### SKILLS

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#### AI/ML

LLM orchestration · Multi-agent systems · RAG · Vector search ·

Fine-tuning · LlamaIndex · LangChain · Hugging

Face · PyTorch ·

Phoenix · OpenTelemetry · scikit-learn

#### Backend

FastAPI · TypeScript · Node.js · PostgreSQL Redis · Apache Kafka · Airflow

#### Languages

Python · TypeScript · C# / .NET · SQL

#### Cloud

AWS (Bedrock, Lambda, EC2) · GCP (Cloud Run, Firestore) · Docker · Terraform · K8s

## CERTIFICATES

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- AWS Certified AI Practitioner · 1000/1000 · Early Adopter · 2025
- HuggingFace Agents Course · Certificate of Excellence · 2025
- Machine Learning Scientist with Python · DataCamp · 2024

## LANGUAGES

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### Italian

Native

### English

C1 listening / B2 spoken & written (CEFR)

## PROJECTS

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### Cloud-native news chatbot

2025

*Major IT news outlet*

Multi-agent system serving 8M+ monthly readers. GCP-native (Cloudun + Firestore + Gemini), <3s response time, 99.9% uptime SLA.

Tech: Python, FastAPI, LlamaIndex, Gemini.

### AI news ingestion & RAG platform

2025

*B2B SaaS*

Multi-tenant TypeScript monorepo with hybrid tool-use/RAG agent. AWS Bedrock for data residency.

Tech: Next.js, Vercel AI SDK, Bedrock, Terraform.

### LorenzoBot

2025

*Open Source*

Self-referential portfolio chatbot. Multi-agent streaming with citations and actions



## OPEN SOURCE

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- [maiurilorenzo/misogyny-detection-it](#) — BERT for Italian NLP
- [maiurilorenzo/dante-gpt](#) — GPT-2 fine-tuned on Divina Commedia
- [maiurilorenzo/histoplastic-cancer-CNN](#) — CNN for medical imaging
- [github.com/lorenzomaiuri-dev](#)
- [huggingface.co/maiurilorenzo](#)