

# Marco Patti

Senior Full Stack & AI Developer

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## Work Experience

2017–Present **Senior Full Stack Engineer**, *Fincons Group*, Milan, Italy

- **Technical Execution:** Delivered enterprise-grade software within Agile environments, ensuring high standards of code quality and maintaining efficient deployment cycles for production-ready applications.
- **Full Stack Architecture:** Engineered the end-to-end architecture for multi-tier applications, utilizing diverse backend environments and message-driven architectures to ensure system decoupling and scalability.
- **Technical Consulting:** Served as technical expert for Tier-1 enterprise clients, translating complex business requirements into technical specifications and ensuring system alignment with organizational goals.
- **Prototyping & R&D:** Developed high-fidelity Proof of Concepts (PoCs) that demonstrated the feasibility of complex AI integrations and automated workflows, contributing to the technical acquisition of new projects.

2021–Present **Independent Full Stack & AI Consultant**, *Self-Employed*, Milan, Italy

- **Content Automation:** Engineered a full-stack automated video processing pipeline using advanced generative models and task orchestration for a major digital creator, reducing production overhead by 70%.
- **Systems Design:** Designed and deployed end-to-end MVP architectures for early-stage startups, focusing on high-performance code, distributed messaging, and robust backend infrastructure.

## Key Project Highlights

Senior Developer **ITSERR Project**, *Semantic Search Platform*, Fincons  
Developed a production-ready search platform for the scientific community. Engineered a high-concurrency backend and custom-tuned embedding models, utilizing asynchronous processing to facilitate complex semantic queries across large corpora.

Senior Developer **AllRights Platform**, *Smart Rights Management*, Fincons  
Executed the full-stack development of AI modules for contract ingestion and content recommendation. Built on cloud-native infrastructure with robust messaging queues to automate critical data workflows for media rights holders.

AI Specialist **ADVisor Application**, *Contextual Advertising*, Broadcasting Sector  
Architected the integration of specialized AI services into a major broadcaster's legacy stack. Developed the orchestration logic for automated video analysis and ad-break identification using scalable, event-driven services.

## Education

2011–2015 **B.S. in International Economics, Management and Finance**, *Bocconi University*, Milan  
Specialization in quantitative methods and business strategy.

## Technical Skills

Languages Python (Expert), JavaScript/TypeScript, Java, Node.js, SQL, HTML5, CSS3/SASS.

Backend FastAPI, Django, Spring Boot, Express.js, RESTful API Design, Microservices Architecture.

Frontend React, Svelte, Vue.js, Tailwind CSS, Material UI, Webpack, Vite, Responsive Design.

Orchestration Apache Airflow, AWS Step Functions, Prefect, Celery.

Messaging Apache Kafka, RabbitMQ, Redis Pub/Sub, AWS SQS/SNS.

Databases PostgreSQL, MongoDB, Redis, **Vector DB Optimization** (Qdrant, Hybrid Search), ElasticSearch, MariaDB, Prisma/Alembic.

AI & ML **Model Deployment** (vLLM, ONNX Runtime), RAG, Semantic Search, LLM Fine-tuning (LoRA), LangChain, LlamaIndex, PyTorch, TensorFlow.

Cloud & Infrastructure Microsoft Azure (Certified AI/Data Engineer), AWS, Google Cloud, **Infrastructure as Code** (Terraform), Docker, Kubernetes, Git, CI/CD.

Testing/Tools Jest, Pytest, Postman, Swagger/OpenAPI, Jira, Confluence.

## Certifications

Microsoft Certified: Azure AI Engineer / Data Engineer / Data Scientist Associate

## Languages

Italian Native

English Fluent (Professional working proficiency)