

Riccardo Bedogni

Software Developer | AI Engineer | Python Backend Developer

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PROFESSIONAL SUMMARY

Software Developer and AI Engineer with hands-on experience in Python backend development, REST API design, full-stack web development (Vue.js, MySQL) and integration of Machine Learning and Large Language Model (LLM) solutions, including Retrieval-Augmented Generation (RAG). Currently working full-time at OT Consulting as Software Developer and AI Engineer on enterprise projects. BSc in Computer Science and MSc candidate in Computer Engineering (Data Engineering & Analytics) at the University of Modena and Reggio Emilia (UNIMORE). Focused on AI-driven architectures, cloud deployment, process automation and data engineering.

WORK EXPERIENCE

Software Developer and AI Engineer

OT Consulting, Reggio Emilia, Italy (Hybrid) | 06/2025 - Present

- Develop and maintain Python backend services exposed via REST API for enterprise clients, integrated with existing business systems.
- Design and integrate Machine Learning and AI solutions within enterprise projects, alongside backend and full-stack development.
- Build full-stack features for a promotion management web application using Vue.js (frontend), Python and SQLAlchemy (backend) and MySQL, including database migrations.
- Implemented promotion duplication across campaign groups and an analytics tracking system shared across frontend components.
- Migrated a legacy Python WSGI application to Google Cloud Platform (Cloud Run, Cloud SQL, VPC Connector).
- Collaborate cross-team in an Agile environment for the continuous delivery of features on consulting projects.

AI Engineer Intern

OT Consulting, Reggio Emilia, Italy (Hybrid) | 03/2025 - 04/2025

- Built a Machine Learning and LLM predictive system to assess the success potential of new business projects.
- Developed the end-to-end pipeline: feature engineering, model training and validation (scikit-learn, pandas) and an LLM layer (LangChain, OpenAI API) generating human-readable reports.
- Deployed the model as a FastAPI service, reducing project analysis time from hours to minutes.

Software Developer Intern

Max Mara Fashion Group, Reggio Emilia, Italy (On-site) | 05/2021 - 06/2021

- Developed a Python Flask web application to optimize and monitor time allocation across business projects.
- Designed the relational database schema and business logic for calculating time-efficiency KPIs.

PROJECTS

RAG System for a Culinary Knowledge Base

Personal project | Python, LangChain, ChromaDB, Google Gemini 2.5 Flash | 2026

- Designed a metadata-first Retrieval-Augmented Generation (RAG) pipeline with a ChromaDB vector database and LLM-based answer generation over a recipe knowledge base.

Smart Parking Premium - IoT and Computer Vision

University project | Python, YOLOv11, Digital Twin, Telegram Bot API | 2026

- Designed a Digital Twin architecture for smart parking with YOLOv11 computer vision for vehicle detection, a Telegram bot interface, GPS-based barrier simulation (Haversine) and B2B federation.

Tactical Football - Computer Vision

Personal project | Python, Computer Vision | https://github.com/bigbrisola/tactical_football | 2026

- Computer vision system for tactical analysis of football matches.

EDUCATION

Master of Science (MSc) in Computer Engineering - Data Engineering & Analytics

University of Modena and Reggio Emilia (UNIMORE), Italy | 09/2025 - 12/2026 (expected)

Bachelor of Science (BSc) in Computer Science - Scienze e Tecnologie Informatiche

University of Modena and Reggio Emilia (UNIMORE), Italy | 09/2022 - 07/2025

High School Diploma in Computer Science and Telecommunications

I.I.S. Blaise Pascal, Reggio Emilia, Italy | 09/2017 - 07/2022

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, Java, C++, HTML, CSS

Backend and Frontend: FastAPI, Flask, REST API, SQLAlchemy, Vue.js, Node.js

AI and Machine Learning: Machine Learning, Large Language Models (LLM), Generative AI, Retrieval-Augmented Generation (RAG), LangChain, OpenAI API, Google Gemini, scikit-learn, pandas, Computer Vision, YOLO

Data and Databases: MySQL, SQLite, ChromaDB (vector database), Data Integration, Data Warehousing, OLAP

Cloud and DevOps: Google Cloud Platform (GCP), Cloud Run, Cloud SQL, Git, GitHub, Linux, Bash

Methodologies and Tools: Agile, Scrum, VS Code, Claude Code, LaTeX

LANGUAGES

Italian: Native | English: Upper-Intermediate (B2)

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