

Giorgio Caizzi

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[In : giorgio-caizzi](#) [GitHub : giocaizzi](#) [Gitee : giocaizzi.github.io](#)

EXPERIENCE

Product Senior Engineer – Generative AI

May 2024

Milan, Italy

Jakala S.p.A.

Developement of end-to-end Generative AI solutions tailored to industry needs –from research and prototyping to deployment to the Cloud– with a focus on observability and cost-effectiveness.

- RAG and BI Agents, multimodal LLMs, Multi-agentic patterns and orchestration.
- DevOps for GenAI and LLMOps: TDD for GenAI Agents, groundedness and guardrailing, deployment to production, CloudOps, monitoring and evaluation of Agents outputs and performance.

Environmental Engineer

Feb. 2021 - May 2024

Milan, Italy

AECOM URS Italia S.p.A.

Technical consultancy on remediation procedures in industrial sites across Italy, in compliance with D.Lgs.152/06.

- Developing solutions for effective collection, processing, analysis and restitution of environmental spatial data.
- Project management: budgeting, proposals, planning, and billing. Regular meetings with clients.

External Collaborator

Mar. 2020 - Dec. 2020

Milan, Italy & Lisbon, Portugal

Wiseair S.r.l.

Development of a GIS-based framework for spatial interpolation of PM2.5 concentration data, taking into account the contribution of urban features and their morphology in the dispersion of pollutants.

Event specialist – "Citycrusher" Team

Sep. 2017 - Sep. 2020

Milan, Italy

Red Bull Italia S.r.l.

Managing brand-activation of Red Bull Citycrusher event-car in selected sport events in Italy.

Hero Team Promoter

May. 2014 - Sep. 2019

Munich, Germany

GoPro EMEA GmbH

Promotion of cameras and brand-activation in selected events in Europe.

EDUCATION

BSc & MSc in Environmental and Land Planning Engineering

Milan, Italy

Politecnico di Milano

Sep. 2014 - Dec. 2020

MSc: Data structures, analysis & ML for environment – Advanced Statistics – Advanced GIS – Databases and Spatial SQL

"Spatial interpolation methods for producing high-resolution PM2.5 concentration maps in Milan, Italy" **BSc:** Soil & groundwater remediation – Sustainability – Climate change mitigation – Hydrology – Hydraulics – Geology

"Environmental and economical impact of Case dell'Acqua, a free drinking-water distribution project in Milan by MM S.p.A."

The British School of Brussels

Brussels, Belgium

International Baccalaureate (IB Diploma)

Sep. 2012 - May. 2014

LICENSES

Italian National Assotiation of Engineers: 2021

TECHNICAL SKILLS

Programming: Python, JavaScript & TypeScript, shell scripting

Observability: Opentelemetry – Grafana stack: Prometheus, Loki, Tempo, Alloy

Cloud: Infrastructures on AWS, GCP & Azure, Cloudflare

Web frameworks: Flask, FastAPI, Django, Express, Nest.js, Next.js

Deployments: Docker & Docker Swarm, Serverless, orchestration

Data Science: pytorch, pandas, numpy, sklearn

Data: SQL & noSQL, Redis, graphs

GIS: ArcGIS, QGis, PostGIS, GDAL, geopandas, shapely,

Development: CI/CD pipelines, git, testing, documentation

rasterio

GenAI: Langchain, OpenAI API, HuggingFace, langgraph, LlamaIndex, MS Copilot Studio

Writing: LaTeX, Markdown & reStructuredText

API: REST & GraphQL, OpenAPI specifications

Web: HTML & CSS, TailwindCSS

PROJECTS

 **py3dinterpolations** quick 3D spatial interpolations
 **mplstrater** plot stratigraphic logs with matplotlib
 **smart-spotify** create smart playlists with Spotify

python, pandas & geopandas, scikit-learn, numpy, shapely, pyproj
python, pandas & geopandas, matplotlib, shapely, rasterio
JavaScript, node.js, Express, HTML, CSS, APIs

PERSONAL SKILLS

Languages: Fluency in Italian (mothertongue) and English. French at professional level.

Interests: skiing, surfing, road-cycling and outdoors. Cartography, infographics and mapping. Tech and AI.