



# Giorgio Caizzi

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 : [giorgio-caizzi](#)  : [giocaizzi](#)

## EXPERIENCE

### Product Senior Engineer – Generative AI

May 2024

*Jakala S.p.A.*

*Milan, Italy*

Development 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 guardrail, deployment to production, CloudOps, monitoring and evaluation of Agents outputs and performance.

### Environmental Engineer

Feb. 2021 – May 2024

*AECOM URS Italia S.p.A.*

*Milan, Italy*

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

*Wiseair S.r.l.*

*Milan, Italy & Lisbon, Portugal*

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

*Red Bull Italia S.r.l.*

*Milan, Italy*

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

### Hero Team Promoter

May. 2014 – Sep. 2019

*GoPro EMEA GmbH*

*Munich, Germany*

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 Association of Engineers:** 2021

## TECHNICAL SKILLS

**Programming:** Python, JavaScript & TypeScript, shell scripting

**Cloud:** Infrastructures on AWS, GCP & Azure, Cloudflare

**Deployments:** Docker & Docker Swarm, Serverless, orchestration

**Data:** SQL & noSQL, Redis, graphs

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

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

**API:** REST & GraphQL, OpenAPI specifications

**Observability:** Opentelemetry – Grafana stack:

Prometheus, Loki, Tempo, Alloy

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


**Data Science:** pytorch, pandas, numpy, sklearn


**GIS:** ArcGIS, QGIS, PostGIS, GDAL, geopandas, shapely,


**Writing:** LaTeX, Markdown & reStructuredText

**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 (mother tongue) and English. French at professional level.

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

References and letters of recommendation available on request.