



# MIHAI GAINA

## GEOMATICIAN DATA DEVELOPER & GEOMARKETING

Available for Web & GIS projects — CODRUM

### CONTACT

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- 🚗 Driving Licence (B)

### DEVELOPMENT & DATA

- Python (pandas, geopandas, matplotlib)
- SQL / PostGIS (spatial queries, ETL)
- Data analysis, spatial statistics
- Workflow automation

### GIS & GEOMATICS

- QGIS, ArcGIS Pro
- Advanced spatial analysis
- SNAP (remote sensing)
- SaTScan (cluster detection)
- d3-geo, Leaflet

### GEOMARKETING

- Catchment areas
- Network optimization
- Territorial scoring
- Geographic KPIs

### DATABASES

- PostgreSQL / PostGIS
- pgAdmin 4
- Supabase

### WEB & VISUALIZATION

- React 19, TypeScript
- Tailwind CSS, Vite
- HTML, CSS, JavaScript
- Git, GitHub, Vercel

### LANGUAGES

- French**  
Fluent (C1), read, spoken and written
- Romanian**  
Native
- Russian**  
Fluent, read, spoken and written
- English**  
Improving (A2-B1)

### CERTIFICATIONS

- Workplace First Aid (SST)
- Electrical Clearance

### PROFILE

Geomatician and web developer, founder of CODRUM. Over five years of experience in geospatial data acquisition and processing (infrastructure: metro, telecom networks) and in building WebGIS platforms and websites for VSEs, SMEs and local authorities. Skills: Python, QGIS/ArcGIS, PostgreSQL/PostGIS, React, interactive mapping (Leaflet).

### EXPERIENCE

**Founder — Web Developer & Geomatician** 2025 – present  
CODRUM (Freelance) — Essonne, France

- Websites and WebGIS platforms for VSEs, SMEs and local authorities (React, PostGIS, Leaflet)
- Interactive heritage & tourism mapping, multilingual, SEO/AEO
- From scoping to production: a single point of contact

**Auscultation & Topography Technician** 09/2020 – 03/2026  
SOCOTEC MONITORING — Palaiseau, France

- Collection and processing of geolocated data on major infrastructure projects (metro, ports)
- Processing and analysis of measurement data (convergence, levelling, deformation)
- Field database management (thousands of records)
- Trend analysis and anomaly detection
- Automation of processing and analysis workflows with Python
- *Projects: Metro L15 T3A/T2C; L16 L1/L2/L3; EOLE; Tisseo M3GC03; Port of Brest; CHAGAL*

**IT Support Technician** 09/2014 – 09/2017  
Moldtelecom — Chisinau (Permanent)

- Technical troubleshooting and problem resolution
- Network data analysis and user support

### PROJECTS

**Web GIS Călărași — public demo**  
Leaflet + PostGIS + GeoJSON — multilingual  
Interactive heritage map of a territory (30+ sites): thematic layers, counters, info cards.

**GAL LEADER campaign — Heritage/tourism WebGIS**  
Multilingual WebGIS + autonomous back-office (Geotrek model)  
Mapping platforms for Local Action Groups (Moldova): trails, POIs, services.

**Rentaloc — rentaloc.fr**  
React + TypeScript + iframe integration (postMessage)  
Van rental website: redesign + embedded booking module (in-funnel payment).

### EDUCATION

**Master's in Geomatics (G2M)** 2025 – 2027  
Université Paris 8 — Saint-Denis (in progress)

- Spatial analysis, cartography, spatial databases (PostGIS)
- Remote sensing, Python/R programming

**Bachelor's in Biomedical Engineering — Honours**  
Technical University of Moldova — Chisinau  
2015 – 2019

**BTS in Computer Science — High Honours**  
Centre of Excellence — Chisinau  
2011 – 2015

### ACADEMIC PROJECTS

- **Multicriteria Spatial Analysis** of Saint-Étienne: AHP/WLC method (ArcGIS Pro, IDRISI)
- **Dengue Analysis in Girardot** (Colombia): SaTScan clusters, Moran/Getis-Ord
- **Jakarta Floods**: multi-sensor Sentinel-2 remote sensing

### INTERESTS

**Tennis** (7 years, competition) • **Travel** (Europe: Ireland, Italy, Spain, Germany) • **Tech watch** (geomatics, AI, web development) • **Photography** (landscapes, drone)