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Architecture, data and intelligence, from open evidence to board-ready roadmap.

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3 CASE STUDIES
CASE · EVIDENCE · CLAIM BOUNDARY
SCREEN AND A4 EDITION

COMMUNITYAI

Technical direction for an early-stage community-intelligence proof of concept, within a collaborative founding team.

Technology and data direction for an early-stage community-intelligence venture, turning public, area-level evidence into a privacy-safe and auditable product without representing model signals as client outcomes.

ROLE

Chief Technology Officer (Designate)

SCALE

Organisation and platform

CAPABILITIES

Solution architecture, Data architecture, GeoAI, Delivery leadership

- Appointment as CTO-designate following a technical audit and a staged platform roadmap.
- An open-data evidence architecture with traceable dataset, processing and model provenance.
- A validation framework that uses spatial holdouts, baseline comparisons and explicit claim boundaries rather than inflated random-split scores.
- Governed release controls separating research evidence, product-ready outputs and client-specific validation.

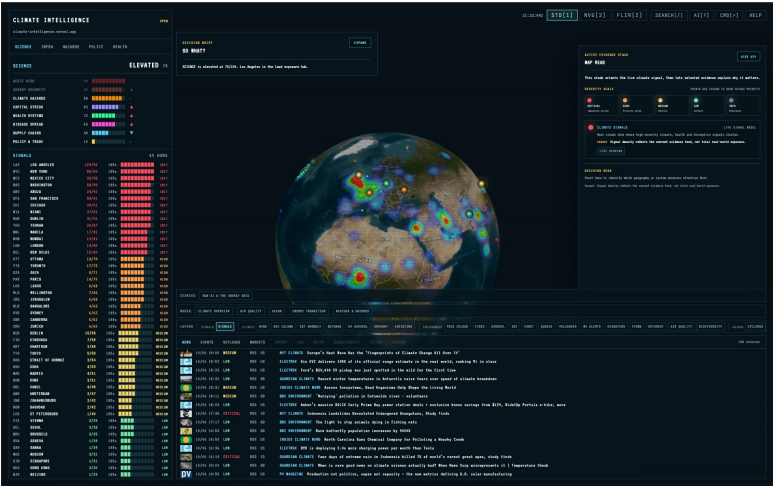
Claim boundary: This case records my current technical mandate, not ownership of the venture or proof of a client outcome. Detailed architecture, counterparties, internal findings and model results are withheld pending written approval. The work is predictive and decision-supporting, not a causal claim.

CASE STUDY [Read on gerardoezequiel.xyz](#)

CLIMATE INTELLIGENCE

Open-core climate instrument, from data adapters to an agent-callable tool surface.

An open, keyless climate instrument: hand it any coordinate on Earth and it returns a sourced, multi-hazard exposure profile with a live satellite view, then hands the whole engine to AI agents.



ROLE

Founder and full-stack developer

SCALE

Global, any coordinate

CAPABILITIES

Climate-risk modelling, Geospatial engineering, Open data, AI agents (MCP)

- A per-location Climate Exposure Profile with a dominant hazard, confidence value, heat outlook and per-hazard provenance, served through a read-only endpoint.
- A live Sentinel-2 preview through keyless STAC, plus a deterministic report generated without an LLM or per-request model spend.
- An authenticated, read-only MCP surface allowing agents to call the same inspectable climate functions.
- A broad regression suite and an explicit source catalogue recording each feed's provenance and licence tier.

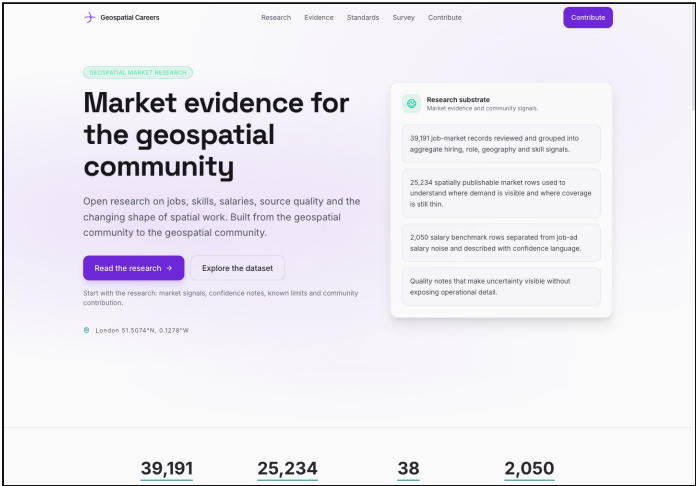
Claim boundary: This is hazard and exposure screening, not loss modelling. The per-location engine and read-only agent tools are usable; the global-monitoring layer is still being hardened, and riverine flood remains contextual until return-period scoring lands. The work acknowledges its conceptual lineage and does not claim the source concept as my own.

CASE STUDY [Read on gerardoezequiel.xyz](#) LIVE WORK [Open Climate Intelligence](#) ↗

GEOSPATIAL CAREERS

Founder-built data product and PostGIS and dbt platform for the geospatial field.

A research and product prototype for the spatial-data field: where its roles are, what they pay, what they demand, and who its map leaves out. Publication is held while the public data and deployment gates are repaired.



ROLE

Founder and lead developer

SCALE

Labour market and community

CAPABILITIES

Data product, Data engineering, PostGIS, Research governance

- A prototype interface backed by a three-layer PostGIS and dbt research platform; the current production surface is not represented as publication-ready.
- A provenance- and licence-aware ingestion path spanning job advertisements and official salary evidence, with public corpus magnitudes withheld until publication gates pass.
- Metric perturbation checks and certified marts that separate exploratory analysis from claims suitable for release.
- A methodology and claims registry that attach source date, denominator, confidence language and known limits to every publishable result.

Claim boundary: It is not a complete or unbiased census of the profession. The current publication candidate is blocked while source attribution, rights and production release evidence are reconciled, so no corpus magnitude on this portfolio should be read as a released dataset claim.

CASE STUDY [Read on gerardoezequiel.xyz](#)