

MARK VOLDECK

Political Data & Geospatial Analyst | Civic Accountability Researcher

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PROFILE

Geospatial developer and data engineer with 15+ years building intelligence platforms for federal agencies, research institutions, and community organizations. Specialize in turning fragmented public data into targeting, modeling, and accountability outputs at neighborhood granularity, drawing on voter files, FOIA records, corporate filings, campaign finance reports, and parcel and assessment data. Currently founder of RegionPulse, LLC (regionpulse.com), a Michigan-based civic geospatial consultancy, and editor of Rhinoceros Media (rhinocerosmedia.org), an independent public records analysis and investigative publication for Lansing and mid-Michigan. Seeking a data, targeting, or analytics role on a Michigan progressive campaign, ballot initiative, or accountability organization for the 2026 cycle.

TECHNICAL CAPABILITIES

Political Data: Voter file analysis, universe building, geographic targeting, density modeling, donor network analysis, entity resolution, pattern analysis across campaign finance and corporate filings

Geospatial: PostGIS, QGIS, ArcGIS Pro, spatial databases, demographic and market analysis, census tract and precinct-level granularity, cartography, parcel and assessment data pipelines

ML & Modeling: XGBoost, SHAP explainability, NLP, scikit-learn, pandas, NumPy, statistical modeling, predictive modeling for civic and political applications

Full-Stack: React, Next.js, Node.js, Express, Python, Flask, TypeScript, REST APIs, Vercel deployment

Infrastructure: PostgreSQL, MySQL, AWS, Azure, Linux, Docker, Git, ETL pipelines, integrations with MiTN, LARA, CivicClerk, PACER, MiCOURT, IRS Form 990 (ProPublica Nonprofit Explorer), and Senate LDA

Research: FOIA strategy and request drafting, entity resolution across public-records sources, corporate-structure and ownership-chain analysis, campaign finance research, conflict-of-interest detection, federal socioeconomic and natural-resource research

SELECTED EXPERIENCE

Founder & Technical Lead | *RegionPulse, LLC (regionpulse.com)* 2024 – Present

Michigan-based civic data research consultancy serving political campaigns, journalists, watchdogs, and community organizations. Productized public-records analysis with primary-source citation on every claim.

- Built full-stack AI-powered geospatial platform (React, Next.js, Node.js, PostgreSQL/PostGIS) producing neighborhood-level analysis at census tract and precinct granularity for political campaigns, retail site selection, and civic applications across Michigan.
- Architected compound AI system combining XGBoost, SHAP explainability, and NLP for natural-language queries against spatial data.
- Produce district-level scored voter universes for Michigan campaigns built on the Michigan Qualified Voter File, with turnout and partisan models and methodology.
- Deliver candidate conflict dossiers and donor network analyses combining LARA corporate filings, LLC ownership chains, court records, IRS Form 990 board seats, and campaign finance with conflict-of-interest flags tied to specific statute citations.
- Produce district intelligence briefs with precinct-level turnout modeling, historical results, demographic and issue overlays, and ballot-measure analyses.
- Built tract-level issue reporting system for PFAS, environmental justice, housing, healthcare, and cost-of-living, with affected-voter counts, statewide-percentile context, and field-targeting recommendations scaled to office tier.

Editor | *Rhinoceros Media* (rhinocerosmedia.org)2025 – Present

Independent investigative publication for Lansing and mid-Michigan, documenting local power: campaign finance, corporate registries, nonprofit filings, lobbying disclosures, property chains, and the connections between them. Reader-supported, no paywall, no advertising. Building toward a worker-owned cooperative.

- Designed and built the publication end-to-end: site (Next.js on Vercel), editorial pipeline, FOIA log, council tracker, network graph, and corrections workflow. Each investigation is built from hundreds of primary records, with every factual claim linked to its source.
- Operate a multi-format production model: written investigations, data visualizations, infographic posters, podcast episodes, and printed zines ship in parallel rather than being derived from a single master format.
- Built integrated research infrastructure across Michigan campaign finance (MiTN), IRS Form 990 and 8872 filings, LARA corporate registry, CivicClerk meeting packets, PACER and MiCOURT court records, Senate LDA lobbying disclosures, and county property records.

Project Analyst | *Community Housing Network*2018 – 2024

- Developed and maintained statewide web application for supportive housing placement, integrating property data with case management workflows used across Michigan.
- Built data visualization systems and workflow automation tools supporting housing services for vulnerable populations.
- Translated frontline caseworker needs into spatial and database design; direct experience moving between technical and non-technical stakeholders that transfers to campaign and organizing environments.

Research Assistant | *Michigan State University*2008 – 2017

- Conducted geospatial research for USDA, US Coast Guard, and US Army Corps of Engineers across multiple MSU research centers.
- Developed spatial analysis tools, maps, and data systems supporting socioeconomic research in food security, rural development, and natural resource management.

SELECTED PROJECTS

RegionPulse Intelligence Platform

Full-stack geospatial application with ML-powered neighborhood analysis, NLP query interface, and proprietary market and civic indexes at census tract granularity. Built for political campaigns, civic-tech, and community-development use cases.

Rhinoceros Media

Independent investigative publication for Lansing and mid-Michigan, built on Next.js with an integrated FOIA log, council tracker, and conflict-of-interest network graph. Publishes investigations grounded in primary records, with parallel formats including data visualizations, podcast, and printed zines.

Lansing Metro Housing Affordability Tracker

Spatial analytics dashboard tracking housing affordability and code enforcement patterns across the Lansing metro area, drawing on assessment data, code-enforcement records, and demographic indicators.

Federal Agricultural & Environmental Data Systems

Spatial analysis platforms for USDA examining agricultural productivity, rural development, and food access; geospatial work for Coast Guard and Army Corps of Engineers research programs.

EDUCATION & CONTINUOUS LEARNING

Extensive GIS coursework in spatial analysis, cartography, and remote sensing. Two decades of continuous applied learning in full-stack development, database architecture, and machine learning through federal research, academic, civic-tech, and accountability-journalism projects.