

Christopher C Skinner

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Professional Summary

Seasoned data professional with 20+ years of experience building, modernizing, and leading enterprise-scale data in scientific and operational domains. Skilled in connecting data, technology, and people to improve decision-making, streamline workflows, and enable collaboration across technical and nontechnical teams. Adept in Python, SQL, GIS, data visualization, and system integration, with a track record of translating complex information into actionable strategy.

Core Competencies

- **Data Systems & Architecture:** SQL Server, Snowflake, ArcGIS Enterprise, ETL pipelines, metadata governance
 - **Analytics & Automation:** Python (pandas, NumPy), R, Power BI, Tableau, Spotfire, FME
 - **Leadership & Collaboration:** Cross-functional team direction, stakeholder alignment, mentoring, strategic planning
 - **Process Optimization:** Workflow automation, data lifecycle management, cloud migration, quality assurance
 - **Communication & Insight:** Data storytelling, dashboard design, business-focused reporting, presentation to executives
 - **Domain Expertise:** Energy, environment, geoscience, and government data systems
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Professional Experience

Data Management and Data Science Lead

U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO

2022 – 2025

- Directed modernization of enterprise data and system infrastructure, creating scalable, cloud-ready pipelines and analytics environments
- Designed automated workflows in Python and SQL that streamlined multi-source data integration, improving efficiency and reproducibility.
- Delivered interactive dashboards and web applications that improved visibility and strategic insight for scientists, managers, and partners.
- Championed metadata standards and governance frameworks, enhancing trust, transparency, and data reusability across programs.
- Mentored staff and led cross-disciplinary collaboration to ensure alignment of technology with mission outcomes.

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Energy Program Database Task Lead

U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO

2013 – 2025

- Managed a \$2.7M/year national data program integrating vendor and internal datasets to support research, assessment, and compliance.
- Built and maintained data pipelines and reporting systems to deliver timely, validated information for national energy and resource assessments.
- Collaborated with IT, scientists, and policy teams to design data-driven solutions aligned with strategic priorities and public transparency goals.
- Oversaw contract performance, stakeholder engagement, and cross-agency coordination to ensure data reliability and continuity.

IT Specialist (Geospatial Database Management)

U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO

1999 – 2021

- Designed and administered enterprise databases supporting national-scale research initiatives.
- Automated data processing and quality control tasks using Python and SQL to improve system performance and reduce manual effort.
- Guided integration of legacy and modern systems to support public data access and long-term sustainability.
- Led training and outreach to promote data literacy and stewardship across teams.

Education

M.S., Civil Engineering – Geographic Information Systems (GIS)

University of Colorado Denver, 2003

B.S., Natural Resource Management – GIS Minor

Colorado State University, 1998 Department of Forest Sciences Honor Senior

Professional Highlights & Recognition

- Restored access to 20+ TB of critical scientific data, revitalizing national data infrastructure.
- Recipient of the Esri Special Achievement in GIS Award (presented by Jack Dangermond, 2003).
- Delivered national-scale data products supporting energy, carbon storage, and environmental analyses.
- Recognized for leadership in data strategy, communication, and collaboration across scientific and policy domains.

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Selected Web Applications

- **Geological Hydrogen Explorer** – Predictive model integrating geologic and spatial data for hydrogen potential.
usgs.gov/tools/geologic-hydrogen-prospectivity-map-explorer
- **Oil & Gas Drilling History Dashboard** – National-scale analytical dashboard integrating 100+ years of well data.
certmapper.cr.usgs.gov/data/apps/oil_gas_cells/
- **Orphaned Wells & Groundwater Quality Dashboard** – Data integration and risk analysis dashboard.
certmapper.cr.usgs.gov/data/apps/orphanedwell_waterquality/
- **NPR-A Seismic & Well Archive** – Integrated seismic, borehole, and metadata platform supporting research and regulatory analysis.
certmapper.cr.usgs.gov/data/apps/npra/
- **See my portfolio for more:** kingshorthair.github.io/portfolio/

The screenshot displays a professional work portfolio for Chris Skinner. At the top, there is a header with the title "Chris Skinner — Professional Work Portfolio", navigation links for "Data Engineering | Geospatial | Project and Team Leadership | Automation", social media links for "LinkedIn ↗ Email ↗ GitHub ↗", and a dropdown menu for "Role: All".

The portfolio features three main project sections:

- Aggregated Oil & Gas Drilling and Production History:** This section shows a map of the United States and Canada with green dots representing drilling locations. Below the map, there is a brief description: "National-scale pipeline aggregating millions of wells with production and status history...", and a "More" button with sub-links: "Data Engineer", "Stakeholder Liaison", "Geospatial", "Programming", "Product Owner", "web app ↗", "data release ↗", and "python ↗".
- ArcGIS Enterprise System Administration:** This section includes a diagram of the ArcGIS Enterprise architecture (ArcGIS Web Adaptor, ArcGIS Enterprise portal, ArcGIS Server (Hosting), and a database icon). It has a brief description: "Directed internal and public-facing ArcGIS Enterprise environments (dev/test/prod), federated with...", and a "More" button with sub-links: "Team Lead", "Geospatial", and "Geospatial".
- Data Catalogs & Integration Workflows:** This section shows a dashboard with various charts and graphs related to well data. It has a brief description: "Built internal catalogs for well logs, seismic, and geochemistry; integrated vendor datasets (S&P...)", and a "More" button with sub-links: "Data Engineer", "Product Owner", "Geospatial", "Metadata", and "Programming".