Christopher C Skinner

Denver, Colorado • kingshorthair@gmail.com
https://www.linkedin.com/in/chriscskinner/ • https://github.com/kingshorthair

Professional Summary

Senior Geospatial Administrator with 20+ years leading enterprise GIS platforms in energy and environmental domains. Expert in ArcGIS Enterprise, SQL Server, and Python with a focus on automation, integration, and metadata strategy. Proven track record modernizing legacy systems and aligning spatial data workflows with business goals.

Core Competencies

- Esri ArcGIS Enterprise (Portal, Server, Data Store), ArcGIS Pro, ArcGIS Online
- Spatial database architecture and management (SQL Server, geospatial schemas)
- Workflow automation and data transformation (Python/ArcPy, SQL, FME)
- Tiered environment deployment and administration (Dev/Test/Prod)
- Federated GIS environments, REST API integration, and system interoperability
- Oil & gas domain expertise: upstream, CCUS, water, geothermal, land
- Metadata standards, documentation, and stakeholder engagement

Professional Experience

Data Management and Data Science Lead
U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO
2022 – 2025

- Modernized enterprise spatial systems to support secure, scalable GIS services.
- Directed team efforts in ArcGIS Enterprise architecture and administration.
- Built spatial data models and automated pipelines for multi-theme datasets.
- Led GIS metadata standards adoption across geoscience teams.
- Partnered with IT to optimize infrastructure and system performance.

Energy Program Database Task Lead
U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO
2013 – 2025

- Managed $2.7M/year upstream data contract covering oil & gas, geothermal, and CCUS domains.
- Integrated proprietary and vendor datasets into geological data platforms (Kingdom) and ArcGIS environments using SQL and Python
- Produced dashboards and spatial data applications to support compliance and reporting.
- Maintained strict quality control protocols and coordinated access control policies.

Christopher C Skinner

Denver, Colorado • kingshorthair@gmail.com
https://www.linkedin.com/in/chriscskinner/ • https://github.com/kingshorthair

IT Specialist (Geospatial Database Management)
U.S. Geological Survey (USGS), Energy Resources Program – Denver, CO
1999 – 2021

- Designed spatial databases and automated geoprocessing workflows with Python and SQL.
- Supported ArcGIS Server and enterprise geodatabase administration.
- Managed integration of legacy and cloud-based systems for public-facing data applications.
- Promoted data stewardship and accessibility through outreach and training.

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

- Revitalized a 20+ TB data migration effort to restore public access to geoscience data
- Led cross-agency collaborations to align spatial data strategies and improve delivery
- Recognized with the Esri Special Achievement in GIS Award, presented by President Jack Dangermond in 2003, for innovation and impact in enterprise geospatial systems

---

Selected Web Applications

- Geological Hydrogen Explorer: https://www.usgs.gov/tools/geologic-hydrogen-prospectivity-map-explorer
- U.S. Aggregated Oil and Gas Drilling and History: https://certmapper.cr.usgs.gov/data/apps/oil_gas_cells/
- NPR-A Seismic and Well Archive: https://certmapper.cr.usgs.gov/data/apps/npra/
- Orphaned Wells and Groundwater Quality: https://certmapper.cr.usgs.gov/data/apps/orphanedwell_waterquality/