Elissa **Esterlein**

AI Automation & Data Analyst · LLM and vision APIs, RAG, data pipelines, GIS

Gunnison, CO · elissa.esterlein@gmail.com · eesterlein.github.io · github.com/Eesterlein · linkedin.com/in/elissa-esterlein-a80857369

SUMMARY

Data analyst who builds AI tools and automated data pipelines for public and research data. Three tools I built are in daily use at a county assessor's office, including a Claude Vision photo classifier. Before that, six years of remote medical-research data work.

SKILLS

AI & LLMs	Claude API (tool use, vision), OpenAI API, Gemini, RAG, embeddings & vector search, evals, prompt engineering, LlamaIndex, Ollama
Automation	GitHub Actions, scheduled API ingestion, ETL, data validation & QA, web scraping
Data	SQL (SQL Server, PostgreSQL, Access), BigQuery, Python, Pandas, Excel, Tableau, Power BI
GIS	PostGIS, GeoPandas, GDAL, MapLibre, Leaflet, Earth Engine, OGC APIs
Development	JavaScript/TypeScript, React, Node.js, FastAPI, REST APIs, Docker, nginx, AWS

EXPERIENCE

Data Analyst and AI Lead · Gunnison County Assessor's Office — Gunnison, CO · Jul 2025 – present

- Built three tools office staff use every day: an AI photo processor that replaced manual photo sorting for about $0.002 a photo, a parcel review dashboard that republishes itself about two minutes after each export, and a weekly short-term-rental monitor ahead of 2027 licensing.
- Wrote SQL Server checks that flag new-construction data errors before the abstract of assessment is filed, and SQL extracts (SQL Server, Access) that deliver property data to appraisers and the public.
- Named the office's AI lead in October 2026: screen proposed AI tools for risk under the county's AI governance framework, wrote the office's AI security plan, and ran an anonymous staff survey on AI needs.

Career break · Full-time parent — 2021 – 2025

- Earned the Google Data Analytics Professional Certificate and Google AI Essentials (2024).

Data Analyst · MedAware Systems — Boulder, CO (remote) · Jan 2015 – Jan 2021

- Turned medical literature and research data into the evidence base behind clinical research tools used by client organizations.
- Designed the search strategies and inclusion criteria the team used for database research, so searches returned fewer irrelevant studies.
- Maintained and validated key datasets, monitored their metrics, and defined research needs with clients; fully remote for six years.

SELECTED PROJECTS · live demos and code at eesterlein.github.io

Appraiser Photo Processor **USED DAILY BY STAFF** — Python · Claude Vision · PyInstaller

Reads each field photo's GPS and compass data, matches it to the nearest parcel, classifies the shot with Claude Vision, and renames and date-stamps it to office standards.

COVID Trials AI — Claude API · RAG · tool use · evals · FastAPI

Public chatbot over 10,269 ClinicalTrials.gov records and 1,630 papers with every claim cited. Hybrid search with a medical reranker; runs statistics in a code sandbox. A 20-question eval compared three models and caught two bugs before launch.

Land Attributes Dashboard **USED DAILY BY STAFF** — Python · GeoPandas · GitHub Actions · MapLibre

Review map of about 17,500 parcels that flags missing attributes and data-entry errors. Uploading a new export triggers a pipeline that cleans the data and republishes the site in about two minutes.

Gunnison STR Monitor **USED DAILY BY STAFF** — Python · scraping · GitHub Actions · Leaflet

Every Monday, searches about 300 map tiles, filters out hotels and in-town listings, matches each short-term rental to a parcel with a confidence rating, and tracks new and delisted rentals.

EDUCATION & CERTIFICATIONS

B.A., Biology, Western Colorado University (2013) · Google Data Analytics Certificate · Google AI Essentials (2024)
Colorado assessor license track (RAEP): six courses done incl. Mass Appraisal and USPAP; final course Jan 2027