

Sam Vredenburg

Full Stack Developer/AI Engineer/Cofounder - Denver, CO

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uelski.dev : [GitHub](#) : [LinkedIn](#)

Full stack AI engineer with an MS in Data Science and 8+ years shipping production web apps. Currently cofounding an AI-powered home management platform, with hands-on experience in agentic RAG, context engineering, and LLM systems.

SKILLS:

Data Science and AI: Python, PyTorch, SQL, LLMs, MCP, RAG, Agents, LangGraph, Vector Databases

Web Development: JavaScript/TypeScript, React, NodeJS, FastAPI, MongoDB, Docker, GCP, AWS

EXPERIENCE:

Full Stack Developer/Cofounder (2022-Present) - Homefile (Denver)

Stack: React/Typescript, Node/NestJS, Docker, GCP (Cloud Run/Build/Storage)

- Architected a multi-service AI platform combining Gemini LLMs, MongoDB, and microservices to process home documents and property data at scale.
- Built an end-to-end RAG pipeline from document ingestion through vector retrieval to contextual user notifications.

Full Stack Developer (2017-2022) - Aisle Rocket (Chicago)

Stack: React/Typescript, Adobe Experience Manager, SCSS, Custom AEM Components

- Worked with cross-agency teams to develop and deliver web experiences for multiple brands.
- Built reusable component libraries with react; improved page performance and stability.

Web Developer (2016-2017) - TSG Medical Group (Chicago)

Architect Reporter (2012-2015) - BidClerk (Chicago)

PROJECTS:

Denver Data Agentic AI - <https://bluecypher.ai/> - [GitHub - Server](#) - [GitHub - Client](#)

Stack: React/TS/Vite, FastAPI, Qdrant vector db, Postgres, Gemini, LangGraph

- Agentic RAG application powered by the Denver Open Data Catalog

Homefile AI - Private Repo

Stack: Node, MongoDB, LangFuse, Context Engineering

- Full-stack Agentic AI system driving user engagement

CAIC Forecast Data App - caic.uelski.dev - [GitHub](#)

Stack: React/TS/Vite on Cloudflare, FastAPI via GCP Cloud Run, PyTorch

- ML/AI full stack app that ingests avalanche forecast summaries and presents model-driven danger levels by elevation band.

Document Query RAG - <https://rag.uelski.dev> - [GitHub - Server](#) - [GitHub - Client](#)

Stack: React/TS/Vite on Cloudflare, FastAPI, OpenAI, Pinecone vector db, PyMuPDF

- PDF parsing → chunking/tokenization → embeddings → vector search → LLM synthesis.

EDUCATION:

University of Denver - Master of Science: Data Science (2023-2025)

University of Vermont - Bachelor of Arts: Economics (2007-2011)

General Assembly - Web Development Immersive (2015)