Sam Vredenburgh

Full Stack Developer/AI Engineer - Denver, CO
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Originally from the Northeast, I currently call Denver home. I am a full stack developer, aspiring AI engineer, and startup cofounder with a passion for learning and building.

SKILLS:

Web Development: JavaScript/TypeScript, React, NodeJS, MongoDB, Docker, GCP, AWS
Data Science and AI: Python, TensorFlow, pytorch, scikit-learn, SQL, Spark, MCP, RAG, Agents

EXPERIENCE:

Full Stack Developer/Cofounder (2022-Present) - Homefile (Denver)
Stack: React/Typescript, Node/NestJS, Docker, GCP (Cloud Run/Build/Storage)
- Leading product development of an AI-powered home management platform.
- AI driven features with home data and user files.

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; improved page performance and stability.

Web Developer (2016-2017) - TSG Medical Group (Chicago)
Stack: AngularJS, PolymerJS, JQuery, SCSS
- Built upon existing code and created new applications to expand e-commerce systems.

Architect Reporter (2012-2015) - BidClerk (Chicago)
- Construction industry project database - researched, created and updated projects.

PROJECTS:

CAIC Forecast Data App - caic.uelski.dev - https://github.com/uelski/caic-skier-brief
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.

RAG App - https://rag.uelski.dev - https://github.com/uelski/rag-context-server - https://github.com/uelski/rag-context-client
Stack: React/TS/Vite on Cloudflare, FastAPI, OpenAI, Pinecone vector db, PyMuPDF
- End-to-end retrieval: PDF parsing → chunking/tokenization → embeddings → vector search → LLM synthesis.

MCP POC App - Private Repo
Stack: Node/NestJS, Model Context Protocol, Google Gemini, FastMCP
- MCP server + client exposing app context/tools to LLMs

EDUCATION:

University of Denver - Master of Science: Data Science (2023-2025)
University of Vermont - Bachelor of Arts: Economics, Music (2007-2011)
General Assembly - Web Development Immersive (2015)