Tyler Milligan

Co-founder & CTO · Product-minded engineer · Technical writer

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I turn messy domains into working systems. As co-founder and CTO of QuarterSection, I listen to the people in an industry, find what frustrates them and turn it into product, then ship every technical piece of it myself. Before that: technical writing at Microsoft (HoloLens, Mixed Reality, Mesh) after an internship at Google, digital product management, a startup I co-founded, and published Arctic research.

EXPERIENCE

Co-founder & CTO · QuarterSection

Nov 2024 – Present · Remote

Co-founder of an investor-backed data platform for Oklahoma mineral-rights owners and oil & gas professionals. I turn what owners, landmen and operators tell us into product, and I have shipped every technical piece of the business end to end.

- Translate industry problems into product: from customer conversations and demos to shipped features, like production history for wells customers saw as empty, county-records search that works the way landmen search, and drilled paths for horizontal wells the state's feeds leave blank.
- Designed a proprietary matching engine that ties the state's production records to physical wells, which the state never links with a shared ID, and kept rebuilding it: location-consistent matches rose from 59% to 91%, with an automated correction step validated at 98.5% precision.
- Built and run the data platform: nightly scrapers and ETL over state regulatory, production and county records into a ~100-table Azure SQL estate that rebuilds itself every night with zero downtime. 74M+ production records, 450K+ wells, all 77 counties, 1M+ records refreshed automatically every day.
- Automated the business, not just the product: monthly state data downloads, account alert emails, a nightly scoreboard, CRM workflows that hand every new lead to a rep, attribution tracking and drafted weekly marketing, with no one pressing a button.
- Kept it lean: affordable automation and pay-as-you-go cloud in place of enterprise tools and bloat. AI document reading went from about $0.30 to $0.05 a document, and a statewide platform sells at $200 a month where enterprise data platforms charge about $1,500+.
- Went past the brief: a cited AI assistant that declines rather than guesses, well paths reconstructed from OCR'd survey documents, data-quality checks that catch impossible values before users do, and search 120× faster (30+ s to 253 ms).
- Administer every system the company runs on (cloud, domains, identity, payments, CRM, email, analytics, knowledge base) and set up how it operates: planning rhythm, sales playbooks, pricing and billing, and a security readiness program. Helped pitch investors and handled the follow-up.

Technical Writer II · Microsoft

Feb 2022 – Oct 2024 · Remote · promoted from Technical Writer

Mixed Reality Content & Learning: HoloLens, Mixed Reality and Microsoft Mesh, from end-user guides to developer and API reference docs.

- Led content architecture and writing for Microsoft Mesh end to end, for developers, IT admins, end users and business decision makers.
- Owned Mesh content on Microsoft Learn (~10K visitors a month) and Microsoft Support (~140K page views a month), and helped take Mesh to market; my product feedback reached into UI, app and feature reviews.
- Managed the Windows Mixed Reality docs and published Learn modules; built internal tooling on Power Platform and Azure DevOps.

Digital Product Manager · The Privacy Co.

Aug 2020 – Feb 2022 · Seattle, WA

Owned the in-app content for Priiv, a privacy and security app, and used content architecture to drive conversions.

- Worked with the CEO on growth strategy, with guidance that met people at their own skill level so they could lock down every app and device.

Content Manager · Publist

Sep 2019 – Dec 2019 · Boulder, CO

Built the startup's brand identity and online presence.

- Created multimedia content and promotion strategies, supported online communities and tracked impact across the business.

Technical Writer Intern · Google

Apr 2019 – Aug 2019 · Seattle, WA

Google Cloud Identity Platform.

- Wrote new quickstarts and onboarding documentation for Identity Platform.
- Added functionality to internal bash tooling used by thousands of Googlers.

Co-founder & Head Writer · FutureScope

Oct 2015 – Aug 2019 · Boulder, CO

A daily newsletter translating emerging tech, from machine learning to biotech to blockchain, for a general audience.

- Wrote 3,000+ articles, six a day at peak, and grew from writing intern to partner in under a year; hired and trained writing interns and worked with international partners.

Research Assistant · CU Boulder · INSTAAR & Saddoris Lab

Jun 2017 – Aug 2018 · Boulder, CO · Toolik Field Station, AK

Neuroscience of learning and addiction at the Saddoris Lab, then atmospheric field research above the Arctic Circle with the Institute of Arctic and Alpine Research.

- Research assistant and computer science specialist at Toolik Field Station, Alaska (summer 2018); co-author on the resulting paper in Biogeosciences (2020).

SELECTED BUILDS

Grounded Agents Retrieval-grounded chat across five domains, citing every claim from 60,000+ sourced passages.

Noggit AI that trains your mind instead of replacing it: saved ideas become fact-checked questions, asked with spaced repetition. Early access.

The Stack Map A curated catalog of AI tools and workflows.

Outdoor Hub Trails and backcountry snow reports for the Pacific Northwest.

dügood Client work: modern web presence and automation for main-street businesses.

SKILLS

Engineering: React, Node + Express, Azure SQL, Python, GitHub Actions, Cloudflare Workers, Stripe, Auth0, Mapbox, Playwright, PostHog

AI: Claude, RAG with citations, Azure AI Vision (OCR), Agent workflows

Writing & product: Technical writing, Information architecture, API reference, Microsoft Learn, SEO, Product management

EDUCATION

University of Colorado Boulder
B.A., Computer Science · 2015 – 2020
Also studied neuroscience (one year from a second degree).

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals Microsoft, Jun 2023

Introduction to Data Analytics for Business CU Boulder, Leeds School of Business, Aug 2020

Search Engine Optimization UC Davis Continuing and Professional Education, May 2018

PUBLICATION

Biogenic volatile organic compound ambient mixing ratios and emission rates in the Alaskan Arctic tundra
Biogeosciences 17, 6219 (2020), co-author