



Foundations for **Secure, Scalable Research.**

How Liatrio helped Hologen build a secure, scalable AI platform, empowering researchers to innovate faster.

A Promising Startup Confronting High-Stakes Security Demands

Hologen is a healthcare-focused machine learning startup building advanced AI models for hospital systems and clinical partners. With a small team of ML researchers and critical data partnerships already in place, Hologen had the urgency and the vision to move fast. But the stakes were incredibly high. Their business depended on the secure handling of sensitive healthcare data. One breach could destroy it all.

To power its infrastructure, the company selected CoreWeave, an AI hyperscaler known for high performance and cost efficiency. From the outset, however, Hologen's elevated needs in security, identity, and automation differed from those of many of CoreWeave's typical customers. Rather than signaling a gap or deficiency, this revealed a shared opportunity: to uplift the platform to support a more enterprise-ready, security-first operating model aligned with Hologen's mission.

Out-of-the-box patterns for federated identity, automated access controls, or secure multi-team workflows weren't yet common on the platform. Hologen needed a foundation that balanced security, automation, and researcher experience, without slowing down development.



Industries:

Healthcare and technology

Headquarters:

Saint Peter Port, Guernsey

Founded:

2023

Core Products:

Large Medicine Models (LMMs), Multi-modal GenAI Models, Interventional Intelligence Platform, and an Anatomically Targeted Therapeutic Platform

The Turning Point: Leaning on Liatrio

Through a mutual client referral, Hologen turned to Liatrio for help. The initial request focused on AWS landing zones and infrastructure setup. But early conversations surfaced a more impactful path: building a secure, automated, developer-friendly platform directly on CoreWeave.

As Liatrio collaborated with Hologen and CoreWeave's product team, all three organizations quickly aligned on the realization that Hologen's needs presented an opportunity to strengthen the platform's enterprise story. Together, they chose to enhance CoreWeave's capabilities to meet the security, identity, and automation requirements of a healthcare-focused ML company.

In just twelve weeks, Liatrio stood up a secure-by-default, operational platform for Hologen's researchers. This wasn't a proof-of-concept. It was a real, production-ready foundation to power the company's future.



Building a Secure, Usable ML Platform from Scratch

Liatrio engineered the platform with security, automation, and developer usability treated as equal pillars:

- **Security by default** – Long-lived admin tokens were replaced with automated, short-lived, federated credentials, reducing risk while improving usability.
- **Enterprise-grade IAM on CoreWeave** – CoreWeave's native IAM was difficult to use with AWS or Kubernetes. Liatrio built a custom framework to deliver secure, scalable data access across hundreds of buckets.
- **A developer experience built for scale** – The platform enables rapid onboarding of future ML researchers with minimal training, reducing friction while preserving security.



From Bottlenecks to Velocity

Before this work, data access was manual and inconsistent. Users had to create accounts and share passwords by hand, with no centralized controls. Now, credentials rotate automatically, secrets expire by design, and all access flows through a federated identity model.

This transformation goes beyond security. It delivers efficiency. ML researchers can instantly access the data and tools they need, freeing them to focus on innovation instead of troubleshooting access.



Rewriting the Ask, Redefining the Impact

Initially, Hologen engaged Liatrio to stand up AWS infrastructure, but gained something far more valuable: a production-grade ML platform built around their real needs. The effort redefined what was possible on CoreWeave and set a blueprint for how early-stage AI startups can scale securely without losing speed.

The impact extended beyond Hologen. By working directly with CoreWeave's product team, Liatrio helped shape platform improvements that benefited all customers. What began as a consulting project evolved into true co-development—with the client and the cloud provider alike.

What's Ahead: Scale Without Sacrifice

Hologen now has a secure, scalable platform designed for the long term. As the company grows, new data scientists can onboard quickly and be productive without manual processes or inconsistent workarounds. With the enhancements made to CoreWeave itself, Hologen also benefits from a stronger, more robust ecosystem around its infrastructure provider.

This wasn't just infrastructure. It was enablement, product-focused thinking, and security-first engineering that truly advanced the company.

The result: a secure, scalable platform that empowers Hologen to move fast, safely.

Challenges:

Sensitive data with no room for security missteps, immature cloud provider lacking enterprise-grade controls, manual error-prone data access workflows, and no built-in developer experience

Solutions:

Enterprise & Cloud Platform Engineering, Security & Compliance Driven Digital Transformation, and Workforce/Engineering Enablement

Technologies:

CoreWeave (Infrastructure), AWS, CoreWeave S3 Buckets, CoreWeave K8s, Slurm Workload Manager, federated identity, secrets automation, PyTorch (ML Framework for application Code)



Liatrion is a strategic technology transformation partner helping enterprises scale AI, modernize applications, build secure cloud platforms, and accelerate software delivery. With deep expertise across platform engineering, enablement, and DevOps, Liatrion enables large organizations to operate with speed, trust, and the mindset of a modern tech company by empowering the people behind the systems.