

Luke Perrin

Enterprise R&D Data Strategy | AI/ML Enablement | Digital Transformation in Drug Discovery

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Executive Summary

Strategic data and digital transformation innovator in pharmaceutical R&D, specializing in enterprise data ecosystems, AI/ML enablement, and scientific informatics modernization.

Proven track record partnering with executive stakeholders across global pharma organizations to design scalable digital architectures integrating ELN, LIMS, compound registration, assay systems, and HPC environments. Experienced in aligning scientific, engineering, and business teams to deliver measurable improvements in data accessibility, workflow efficiency, and predictive modeling readiness.

Recognized for bridging discovery science, cloud-native architecture, and enterprise product strategy to accelerate therapeutic development. Leveraging cutting-edge cloud & AI technologies to ensure data is FAIR for maximum extrapolation of its inherent value.

Leadership Impact

Enterprise Portfolio Leadership

- Managed \$5.5M enterprise portfolio spanning 18+ pharmaceutical partnerships with sustained double-digit annual expansion.
- Trusted strategic partner to multiple top-20 global pharma organizations.

Digital Transformation Outcomes

- Led enterprise R&D data consolidation initiatives across distributed global teams.
- Reduced workflow fragmentation by integrating assay, registration, and modeling environments into centralized platforms.
- Enabled AI-assisted molecular design workflows by improving data model readiness and system interoperability.

Cross-Functional Influence

- Operated across R&D executives, IT architecture, data engineering, product management, and security stakeholders.
- Influenced roadmap direction for enterprise scientific software through structured customer feedback and strategic feature definition.

Professional Experience

Schrödinger | San Diego, CA

Senior Strategic Deployment Manager

LiveDesign[®], Enterprise Informatics Cloud SaaS Solution & Digital Lab for Molecular Design

Directed enterprise scientific informatics and digital transformation initiatives supporting global pharmaceutical R&D organizations.

Enterprise Strategy & Architecture

- Advised R&D and IT leaders on data modernization roadmaps and AI/ML enablement strategies.
- Designed secure, cloud-native architectures integrating ELN, LIMS, compound registration, assay systems, and HPC infrastructure.
- Identified systemic workflow inefficiencies and re-architected data pipelines to improve decision velocity and governance.

Program & Stakeholder Leadership

- Oversaw complex SaaS deployments and multi-component and multi-cloud system integrations.
- Negotiated enterprise SOWs, RFP responses, and technical implementation frameworks.
- Aligned product, engineering, and scientific stakeholders to ensure scalable adoption.

Business Impact

- Managed \$5.5M book of business; achieved 22% average YoY growth.
- Expanded strategic partnerships across multiple top-tier pharmaceutical companies.
- Facilitated the successful scaling of platforms for several clients, achieving up to 50% increased usage or data by collaborating with technical teams to establish system specifications for performance continuity.
- Reduced project turnaround times by up to 50% by defining clear roadmaps, monitoring progress closely, and regularly discussing priorities with colleagues.
- Developed technical solutions to improve the platform's flexibility with enterprise data architectures and usability by documenting user stories, identifying risks, assessing value, and presenting concepts through presentations, flowcharts, and UX mockups.

Strateos | San Diego, CA

Cloud Lab Digital Solutions Engineer

Strateos Software, Cloud SaaS for Remote Orchestration of Autonomous Robotic Lab Systems

Led enterprise R&D data strategy engagements for top global pharmaceutical organizations.

- Designed cloud-native automation and data architectures supporting remote laboratory orchestration.
- Authored 100+ page enterprise transformation proposals covering governance, integration, analytics, and AI enablement.
- Translated scientific requirements into scalable product capabilities in collaboration with engineering teams.

Strateos, San Diego, CA*Data & Automation Engineer, Chemistry***Strateos Software, Cloud SaaS for Remote Orchestration of Autonomous Robotic Lab Systems****Architected automated data systems supporting high-throughput synthetic chemistry operations.**

- Designed an integrated data architecture across ELN, registration, analytics, and inventory systems.
- Built synchronous ETL processes to streamline data flow and reduce manual entry across discovery workflows.
- Developed algorithmic vendor selection and retrosynthetic support tools integrating commercial APIs.
- Implemented real-time BI dashboards providing leadership visibility into laboratory KPIs and operational efficiency.

Early Scientific Career – Foundation in R&D

Held research roles spanning synthetic chemistry and biochemistry, providing hands-on experience across R&D processes for several therapeutic areas and modality types..

Strateos | Eli Lilly Biotechnological Center, San Diego, CA*Associate Scientist II, Synthetic Chemistry (Small Molecule)***Integrity Bio | Thousand Oaks, CA***Research Associate II, Biochemistry (Large Molecule)*

This foundation provides deep domain understanding of:

- Protein stability and formulation development
- High-throughput synthesis, purification, & assay experimentation
- Laboratory processes & data collection– challenges & bottlenecks
- Scientific data management & integrity– importance of FAIR data principles and integrity of system integrations

Education

Data Analytics & Visualizations Bootcamp | UC Berkeley Extension - *Certificate***Westmont College | Santa Barbara, CA - *Bachelor of Science, Chemistry***