

Matt Oremland, PhD

Director of Data Engineering & Analytics

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PROFESSIONAL SUMMARY

Data platform leader with 10+ years building scalable analytics infrastructure and leading cross-functional data teams in fast-paced environments. Proven track record establishing data foundations from the ground up, implementing governance frameworks, and translating complex data into actionable business insights. Hands-on technical expertise across modern data stacks (Snowflake, Databricks, Python) combined with player-coach leadership style that balances strategic vision with rolling up sleeves to deliver results. Successfully managed teams of 3-7 through platform migrations, governance implementations, and analytics transformations while maintaining strong stakeholder partnerships across GTM, Product, and Finance organizations.

PROFESSIONAL EXPERIENCE

Redica Systems

April 2025 – February 2026

Senior Director, Data Strategy & Analytics

Remote

- Built production data platform from scratch consolidating multi-source FDA regulatory data, designing reference data architecture and implementing data governance frameworks that enabled standardized analytics across pharmaceutical clients
- Established foundational data pipelines and transformation logic in Snowflake, creating reliable single source of truth for risk scoring models and regulatory intelligence dashboards
- Led cross-functional partnerships with client stakeholders including quality leaders and regulatory teams to define KPI frameworks and north star metrics for compliance monitoring
- Deployed production ML classifier (OpenAI API) for automated risk categorization, owning end-to-end design, validation, and collaboration with data engineering on production deployment
- Presented data-driven insights at industry conferences (CHPA, ISPE) as solo presenter, translating complex analytics into executive-level strategic recommendations

Tidal Wave Analytics LLC

January 2025 – Present

Consulting Data Scientist

Saratoga Springs, NY

- Built production quote fingerprinting model in Databricks for building supply software company, implementing nightly batch pipeline and partnering directly with VP of Product and data engineering teams on deployment
- Designed and implemented full-stack data application (Escalators puzzle game) handling daily user analytics, leaderboard calculations, and authentication flows using Python, React, Node.js, and Supabase backend
- Delivered RAG system for tax compliance startup, building data ingestion pipelines for IRS/state tax forms and implementing document retrieval architecture using HuggingFace and PyTorch

Gilead Sciences

January 2023 – March 2025

Director, Insights, Data & Analytics (Medical Affairs)

Foster City, CA

- Led team of 5 analytics engineers and dashboard developers, establishing data operations standards and mentoring team through platform migration and governance implementation
- Built centralized data lake consolidating healthcare professional (HCP) and healthcare organization (HCO) reference data from multiple sources, implementing ETL processes and data quality frameworks
- Defined enterprise data strategy and governance frameworks for healthcare reference data, writing formal data requirements and establishing ownership models across cross-functional teams
- Managed vendor relationships for data acquisition and cleansing while partnering with internal data engineering teams on pipeline development and standardization

- Delivered Spotfire dashboards tracking HCP/HCO interactions and engagements, enabling Medical Affairs leadership to make data-driven strategic decisions

Takeda Pharmaceuticals

May 2021 – December 2022

Associate Director, Digital & Data Science

Lexington, MA

- Led digital and data science group plus statistical monitoring team, balancing hands-on technical delivery with team mentorship and strategic planning
- Built real-time manufacturing quality monitoring dashboards, establishing KPI frameworks and implementing data pipelines for process control metrics
- Served as Spotfire system administrator, managing platform governance, user access, and technical standards across manufacturing organization
- Authored data requirements and led cross-functional teams through semi-annual APQR (Annual Product Quality Review) process, ensuring data accuracy and stakeholder alignment

Regeneron Pharmaceuticals

May 2016 – May 2021

Senior Process Data Scientist

Rensselaer, NY

- Built automated data pipelines for biopharmaceutical manufacturing analytics, implementing ingestion, cleaning, and transformation workflows that reduced manual processing time by 70%
- Developed predictive models for product quality and feed quantity optimization using ensemble methods, PLS, and PCA, deployed in production manufacturing environment
- Established automated limit calculation system, creating reproducible analytical standards that replaced manual processes and improved data consistency
- Presented technical analytics solutions to senior leadership and cross-functional stakeholders, translating complex modeling work into actionable operational insights

EDUCATION

Doctor of Philosophy (PhD) in Mathematics

2014

Virginia Polytechnic Institute & State University

Dissertation focused on optimization and control methods for complex systems

SKILLS & TECHNOLOGIES

Data Platforms & Infrastructure: Snowflake • Databricks • AWS • Supabase • Data Warehousing • ETL/ELT Pipelines

Programming & Analytics: Python • SQL • Pandas • Scikit-Learn • Data Modeling • API Integration

Visualization & BI: Spotfire • Sigma • Dashboard Development • KPI Framework Design • Executive Reporting

Machine Learning & AI: Random Forest • Ensemble Models • LLM Integration (OpenAI) • PyTorch • HuggingFace • Production ML Systems

Leadership & Governance: Team Management • Data Governance • Data Strategy • Stakeholder Engagement • Change Management • Vendor Management

PRESENTATIONS & PUBLICATIONS

- CHPA Quality and Manufacturing Meeting (2025) — Solo Presenter: Decoding FDA Enforcement Trends in OTC and Dietary Supplements
- ISPE Annual Meeting & Expo (2025) — Solo Presenter: Navigating FDA Compliance - Outsourcing Facility Inspections
- CHPA Regulatory, Scientific & Quality Conference (2025) — Solo Presenter: The Impact of AI on FDA-Regulated Industries
- Redica Systems Webinar (2025) — Solo Presenter: From Reactive to Proactive: Leveraging AI/ML to Improve the Quality Unit