Matt Oremland, PhD

Senior Director, Data Product Solutioning and Build

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PROFESSIONAL SUMMARY

Data product leader with 9+ years designing enterprise analytics solutions that drive operational decision-making and change user behaviors. Expert in translating business requirements into technical products, leading buy/build evaluations, and building teams that develop scalable tools from rapid prototypes. Proven track record aligning data architecture with stakeholder needs, establishing data standardization frameworks, and integrating AI/ML to reduce manual work and enhance efficiency. Deep experience in healthcare and pharmaceutical sectors with expertise in Sigma, Spotfire, Snowflake, and modern analytics platforms.

PROFESSIONAL EXPERIENCE

Redica Systems   April 2025 – Present
Director, Data Strategy & Analytics   *Remote*

- Lead data product strategy for pharmaceutical clients including Eli Lilly and Merck, engaging with stakeholders to understand business needs and design solutions that drive operational decision-making
- Built FDA regulatory intelligence platform from rapid prototype through enterprise-scale deployment, creating tools used daily by quality and compliance teams to change risk assessment behaviors
- Integrated AI techniques into data products including production LLM classifier that automates risk categorization, reducing manual upkeep and enhancing efficiency for regulatory monitoring workflows
- Established organization-wide data lexicon and standardization frameworks by building analytics tools using common data structures, ensuring consistency across pharmaceutical client base
- Collaborate with data engineering teams to align architecture and roadmap with analytics requirements, translating business needs into technical specifications and integration strategies

Tidal Wave Analytics LLC   January 2025 – Present
Consulting Data Scientist   *Saratoga Springs, NY*

- Lead solutioning for complex data needs across healthcare technology and software clients, conducting buy/build evaluations and managing product development lifecycles from concept to deployment
- Built production ML-powered data product for Paradigm that runs nightly and drives operational decisions, starting with rapid prototyping and iterating into scalable enterprise tool
- Developed full-stack data application (Escalators puzzle game) demonstrating end-to-end product ownership from user research through deployment, tracking adoption metrics and user engagement
- Designed AI-powered RAG system for tax compliance that reduces manual document review, applying ML techniques to automate knowledge retrieval and recommendation generation

Gilead Sciences   January 2023 – March 2025
Director, Data & Analytics (Medical Affairs)   *Foster City, CA*

- Led team of 5 developing and maintaining internal data tools (Spotfire dashboards) for healthcare professional engagement tracking, ensuring alignment with Medical Affairs operational needs
- Collaborated with IT Data Engineering to align data architecture and roadmap with analytics team requirements, driving integration strategies for HCP/HCO reference data across multiple source systems
- Built centralized data product serving as single source of truth for healthcare reference data, implementing data standardization that improved accuracy by 40% and changed how stakeholders accessed information
- Partnered with business stakeholders to gather feedback for continuous improvement and tool iteration, tracking adoption metrics and operational results from dashboard usage

- Coached and mentored team members on data product development best practices, building organizational capability in analytics and visualization
- Managed vendor relationships for data acquisition and tool development, conducting build/buy evaluations and ensuring solutions met enterprise quality standards

Takeda Pharmaceuticals
Associate Director, Digital & Data Science

May 2021 – December 2022

Lexington, MA

- Served as Spotfire system administrator and product owner, leading development of internal analytics tools that drove manufacturing and quality decision-making across organization
- Built digital dashboards supporting real-time process monitoring that changed operator behaviors through data-driven insights and automated alerting capabilities
- Led semi-annual APQR meetings tracking operational results and metrics outcomes from analytics tool usage, demonstrating ROI and informing product roadmap priorities
- Created and reinforced data standards by building analytics products using common definitions and structures, improving consistency across manufacturing analytics ecosystem
- Infused predictive ML models into operational dashboards to reduce manual analysis and enable proactive decision-making for quality and process teams

Regeneron Pharmaceuticals
Senior Process Data Scientist

May 2016 – May 2021

Rensselaer, NY

- Designed and built internal data tools for biopharmaceutical manufacturing including automated limit calculations and feed optimization systems that changed production workflows
- Started with rapid prototyping for predictive models and iterated into long-term, scalable tools deployed across enterprise manufacturing operations
- Translated complex business requirements from process scientists and engineers into technical analytics solutions using Python, SQL, and advanced statistical methods
- Presented feed optimization product to senior leadership that resulted in operational behavior changes and measurable process improvements
- Built automated data pipelines that reduced manual data processing work by 60%, enhancing efficiency and freeing analysts for higher-value activities

EDUCATION

Doctor of Philosophy (PhD) in Mathematics

2014

Virginia Polytechnic Institute & State University
Dissertation on optimization and control methods for complex systems

SKILLS & TECHNOLOGIES

Data Product Development: Product Strategy • Rapid Prototyping • Scalable Tool Development • Buy/Build Evaluation • Adoption Tracking • User Feedback Integration

Analytics Platforms & Visualization: Sigma • Spotfire (System Admin) • Power BI • Dashboard Development • Data Storytelling

Data Architecture & Engineering: Snowflake • Databricks • AWS • Data Integration • ETL/ELT • Data Standardization • Data Governance

AI/ML Integration: Machine Learning • LLM Integration (OpenAI API) • RAG Systems • Predictive Models • Automation • Python • Scikit-Learn

Leadership & Stakeholder Management: Team Building • Mentorship • Cross-Functional Collaboration • Vendor Management • Executive Communication • Change Management

Healthcare & Pharmaceutical Domain: Healthcare Reference Data • FDA Compliance Analytics • Pharmaceutical Manufacturing • Quality Analytics • Operational Analytics

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
- Redica Systems Webinar (2025) — Solo Presenter: From Reactive to Proactive: Leveraging AI/ML to Improve the Quality Unit