

# Matt Oremland, PhD

*Director of Engineering, Data Science & Engineering*

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## PROFESSIONAL SUMMARY

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Data science and engineering leader with 10+ years of experience building analytics organizations, data infrastructure, and production modeling systems from the ground up. Proven track record of designing and deploying end-to-end data pipelines, establishing governance frameworks, and leading cross-functional teams to deliver data-driven capabilities that directly impact business outcomes. Experienced in partnering with senior leadership to define data strategy, foster data-centric cultures, and translate complex analytical work into products and insights that power organizational decision-making.

## PROFESSIONAL EXPERIENCE

### Redica Systems

2025 – Present

*Director, Data Strategy & Analytics*

Remote

- Lead data strategy and analytics delivery for a life science platform, partnering across product, engineering, and commercial teams to define priorities and ensure data capabilities directly support business outcomes
- Designed and built end-to-end data pipelines and risk-scoring models from scratch using Python and Snowflake - from raw data ingestion and quality remediation through transformation, modeling, and operationalization into production systems
- Designed a reference data architecture to consolidate and harmonize data from multiple external sources into a unified internal framework, establishing governance standards for consistency, quality, and accessibility across the organization
- Built reusable Python tooling to standardize analytics workflows, reducing manual effort and enabling scalable, consistent data products across the organization

### Tidal Wave Analytics LLC

2023 – Present

*Consulting Data Scientist*

Saratoga Springs, NY

- Built and deployed a production classification model for a SaaS platform using Databricks - the model runs nightly, with ongoing feature engineering, performance monitoring, and retraining, demonstrating hands-on ownership of the full ML production lifecycle
- Designed and built a RAG pipeline in Python using HuggingFace and PyTorch for a tax-tech startup - ingested a large corpus of IRS and state tax forms from public sources and built the retrieval and generation system to advise businesses on filing requirements
- Built a consumer-facing daily puzzle game entirely from scratch as a solo full-stack project: Python for puzzle generation, React/Node.js/Vite/Tailwind for the frontend, Google OAuth for authentication, and Supabase for backend data management - running daily with active users for 2+ months
- Partnered directly with client engineering teams and VP-level stakeholders to translate business needs into data solutions, navigating ambiguous requirements and delivering in fast-moving environments

### Gilead Sciences

2023 – 2024

*Director, Data & Analytics (Medical Affairs)*

Foster City, CA

- Defined and executed enterprise data strategy, aligning analytics capabilities with organizational objectives and serving as strategic advisor to senior leadership on data-driven decision-making
- Led the build of a centralized data lake from the ground up - designing data models, ingestion pipelines, and governance frameworks to create a single source of truth that enabled self-service analytics across the organization

- Hired, developed, and led the internal analytics team, setting technical standards and fostering a culture of continuous learning and analytical rigor
- Established data governance frameworks including metric definitions, quality standards, and data ownership models - the operational foundation for scaling data capabilities responsibly
- Managed vendor relationships and drove tooling decisions aligned with platform scalability and long-term organizational needs

## Takeda Pharmaceuticals

2021 – 2022

*Associate Director, Digital & Data Science*

Lexington, MA

- Led the digital and data science group and statistical monitoring function, driving analytics adoption across manufacturing, quality, and operations - partnering with engineering on infrastructure and tooling decisions
- Implemented predictive modeling programs using machine learning to inform operational decisions, selecting modeling approaches based on business need and data maturity
- Led executive-level reporting sessions, translating complex analytical findings into clear business context and actionable recommendations for senior leadership
- Built training and enablement programs to uplevel data literacy and drive self-service analytics adoption across the organization

## Regeneron Pharmaceuticals

2016 – 2021

*Senior Process Data Scientist*

Rensselaer, NY

- Built and maintained automated data pipelines to ingest, transform, and serve data from multiple systems at scale, supporting both real-time operational monitoring and batch predictive analytics
- Developed and deployed predictive models using ensemble methods, PLS, and PCA - iterating on model performance and expanding scope over time based on business impact
- Mentored junior analysts, set technical standards for data workflows, and contributed to a team culture of analytical rigor and continuous improvement
- Promoted from Data Scientist to Senior Data Scientist based on expanded technical leadership and contributions to data infrastructure

## EDUCATION

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### Doctor of Philosophy (PhD) in Mathematics

2014

*Virginia Polytechnic Institute & State University*

## SKILLS & TECHNOLOGIES

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**Data Science & ML:** Predictive Modeling • Production ML Systems • RAG Pipelines • Feature Engineering • Model Deployment & Monitoring • Machine Learning • Statistical Analysis

**Data Engineering & Platforms:** Python • SQL • Snowflake • Databricks • AWS • HuggingFace • PyTorch • ETL/ELT Pipelines • Data Lakehouse Architecture

**Full-Stack & Web:** React • Node.js • Vite • Tailwind CSS • Google OAuth • Supabase

**Governance & Strategy:** Data Governance • Data Quality & Validation • Data Strategy • Unified Data Modeling • Compliance • KPI Definition

**Leadership & Organization:** Team Leadership & Mentoring • Cross-Functional Partnership • Data Culture & Enablement • Stakeholder Management • Technical Standards