

# Lucas Durand | Data & Technology Leader

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Data and technology leader specializing in AI-ready enterprise data platforms, analytics enablement, and governance in regulated environments. Over a decade of experience building and scaling trusted data capabilities that support trading, risk, and enterprise decision-making. Known for combining platform strategy, disciplined execution, and people leadership to deliver durable outcomes at scale.

Enterprise AI and automation leader accountable for defining, delivering, and operating production-grade AI platforms across predictive, generative, and agentic AI. Experienced in moving organizations from experimentation to reliable, governed AI at scale through strong platform strategy, MLOps and LLMOps foundations, and automation. Trusted advisor to executive and technical stakeholders, with a track record of building high-performing teams and embedding security, risk, and operational excellence into AI delivery.

**CAPABILITIES:** Enterprise Data Strategy • Data Platforms • Analytics & AI Enablement • Data Governance & Quality • Operating Models • Developer Experience • Organizational Leadership

**AI & AUTOMATION CAPABILITIES:** Enterprise AI Platforms • Predictive, Generative & Agentic AI • MLOps & LLMOps • AI Platform Strategy & Roadmaps • Enterprise Automation • AI Governance & Responsible AI • Platform Reliability & Operations

## Experience

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### TD Securities (2016–Present)

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Progressive technical and leadership roles delivering modern data platforms, analytics, and cloud capabilities within a top global investment bank. Combines deep technical expertise with strategic vision to build scalable, trusted data systems that accelerate business outcomes. Recognized with top-tier awards for transformational contributions.

#### Director, Data Platform & Analytics

I lead a 30+ person organization spanning four teams: Market Data Masters, Reference Data Masters, Data Quality & Governance, and Data Science Engineering. Together, we own dealer-wide data platforms supporting trading, risk, compliance, and analytics, combining strategy, execution, and governance to deliver trusted, scalable data products across TD Securities.

*Leadership focus: building platforms that empower teams to move fast safely, using guardrails instead of gatekeepers.*

#### Impact & Outcomes

- Defined and executed a multi-year data platform roadmap aligned with trading, risk, and finance priorities.
- Modernized market and reference data platforms into trusted, product-oriented “golden sources” used across onboarding, risk, and reporting.
- Accountable for enterprise AI platform strategy spanning predictive, generative, and emerging agentic AI capabilities
- Established MLOps and LLMOps-aligned operating models covering deployment, monitoring, retraining, and cost controls
- Shifted the organization from reactive data remediation to proactive data quality and observability.
- Scaled analytics and ML enablement platforms to broad enterprise adoption.
- Defined standards for AI lifecycle governance, observability, and production readiness across teams
- Evaluated and enabled early agentic AI patterns with orchestration, integration, and human-in-the-loop controls

## **Selected Highlights**

- Owned enterprise data platform strategy supporting trading, risk, and analytics in a regulated environment.
- Delivered trusted market and reference data products, materially reducing operational remediation.
- Enabled analytics and ML delivery through self-service platforms with embedded governance.

## **Vice President, Data Science Engineering**

Led the build-out of enterprise analytics and data science engineering capabilities, bridging quantitative teams and core technology to accelerate analytics delivery in a regulated environment.

- Built and led a high-performing engineering team delivering Python infrastructure, notebooks-as-code, and analytics tooling.
- Served as primary liaison between quantitative teams, IT security, and business stakeholders.
- Led teams delivering production AI and analytics capabilities in partnership with product, platform, and security teams
- Enabled analytics delivery 10–25× faster than traditional technology processes.
- Grew platform adoption organically to 1,000+ users across technology, business, operations, and support.
- Implemented lifecycle controls analogous to MLOps / LLMOps, balancing experimentation with enterprise reliability

## **Software Engineer Technical Lead**

- Architected TD Securities' first centralized JupyterHub+ platform (serving [400+] users), reducing prototyping time by 70%.
- Mentored junior engineers through code reviews and best-practice workshops (adopted org-wide).

## **Recognition**

- **TDS Pinnacle Award of Achievement** (Top 0.1% performance).
- **TD Vision In Action Award** (1-in-1000 enterprise-wide recognition).

## **Earlier Roles**

**Software Engineer:** Designed early architecture and launch of the TDS Notebooks Platform; spoke at PyCon CA ([talk link](#)).

**Quantitative Developer:** Implemented derivatives pricing models, Python integrations for C++ libs, founded “Knowledge Academy” learning series ([GitHub](#)).

## **National Bank Financial Markets (2014-2015)**

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### **Trade Floor Application Analyst**

Supported institutional equities trading desks through development of analytics, data pipelines, and visualization tools. Gained early exposure to electronic trading, market data, and front-office workflows that continue to inform platform and data strategy decisions.

## **Education**

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### **MSc, Theoretical Physics - York University**

Research focus in theoretical physics; extensive experience in quantitative analysis, modeling, and scientific computing.

### **HBSc, Physics & Philosophy - University of Toronto**

Visiting Researcher - Perimeter Institute for Theoretical Physics

*Additional teaching experience during graduate studies (Teaching Assistant, Physics).*

## Contact

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I'm generally interested in contributing to innovative organizations through partnership, collaboration, and teaching. Let's connect!

