

Mondelle Simeon, PhD

Cloud, data and engineering leadership — research through production.

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PROFILE

Technology leader with 20 years spanning research, data science, software engineering and cloud infrastructure. Built the first cloud data warehouse and BI platform at GasBuddy, led the Snowflake data platform at PDI Technologies that turned first-party fuel and transaction data into a licensed enterprise product, and now directs a cloud infrastructure organization across Canada and Ireland with a multi-million-dollar annual cloud budget. The pattern is the same in every role: take an under-defined function, make it measurable, then make it strategic. PhD in Computer Science, eight peer-reviewed publications, national NSERC research fellowship.

CORE COMPETENCIES

Platform & data — Data platform architecture, cloud data warehousing, batch and streaming pipelines, curated-layer modelling, data monetization, self-service analytics

Infrastructure — Azure and AWS estate governance, FinOps, reliability engineering, observability, incident and on-call management, disaster recovery, CI/CD

Governance & leadership — SOC 2, ISO/IEC 27001 and 27017, GDPR, CCPA, audit evidence management, vendor and contract negotiation, SLA governance; multi-region team leadership, organizational design, hiring and succession, budget ownership, AI adoption governance

EXPERIENCE

Director, Cloud Infrastructure · Information Services Corporation (ISC) June 2025 – Present · Regina, SK

Publicly traded registry and information management services. Cloud infrastructure organization spanning Canada and Ireland, including an Irish regional lead and a Solutions Architect function separating customer architecture from service delivery.

- Reduced mean task resolution **70%** (63.0 to 18.8 hours across 3,244 tasks) and SLA breach rate **76%** (7.5% to 1.8%), reaching 98.2% compliance against 2,260 SLA targets.
- Executed ISC's first comprehensive Azure audit across all subscriptions, management groups and policies, and established a governance framework aligned to the Microsoft Cloud Adoption Framework with standardized tagging, naming, RBAC and policy enforcement.
- Owned cloud control evidence for **ISO/IEC 27001 and 27017 certification**, clearing internal and external audits with no major non-conformities; replaced ad hoc evidence retrieval with a layered policy → standard → implementation-evidence model.
- Built the FinOps practice across 17 production environments — cost dashboards, rightsizing, scheduling automation, reservation strategy — and renegotiated the licensing and vendor agreements underpinning the estate, securing a recurring discount across all consumption.
- Moved operations from business-hours to **24/7 on-call** and authored the infrastructure on-call standard — severity levels, acknowledgement and escalation targets, handover, and closure requiring validated customer recovery rather than infrastructure resolution alone.
- Enterprise owner for GitHub Copilot, chairing the cross-functional model-expansion committee across licensing, security, architecture, cost and outcome measurement; structured adoption as a bounded, governed pilot with conservative defaults and defined data-protection standards for AI tool use.
- Modernized CI/CD using Azure Managed DevOps Pools and reusable pipeline templates: **41%** lower build times, **80%** shorter release cycles and **62%** lower end-to-end CI/CD time.

Director, Software Engineering · PDI Technologies (GasBuddy) September 2021 – May 2025 · Remote, Canada

Engineering for the GasBuddy consumer platform following PDI's acquisition — mobile, backend, data and QA across four countries. 11M monthly and 20M+ annual users.

- Led **32 engineers including five managers** across the US, Canada, India and South America, grown from 15 — with zero voluntary turnover from April 2023 onward and four senior developers mentored into team lead and engineering manager roles.
- Generated **\$8M in additional annual revenue** through loyalty, payments and telematics products and first-party data-sharing agreements.
- Owned the Snowflake data platform behind the company's data monetization strategy: pipelines across 30+ tables enabling real-time sharing of fuel prices and transaction data, curated silver and gold models supporting premium offerings, and the access, contractual and regulatory controls required before first-party data could be shared externally.
- Grew mobile monthly active users from **4M to 7M** and total monthly active users from **7M to 11M**; led technical execution for the expanded ACH payment product, reaching 83,000 enrollments within three weeks.

- Cut infrastructure cost **56%** through AWS reserved-node strategy, with further six-figure annual savings from API usage redesign and BI consolidation; automated release pipelines to roughly one deployment per day and improved delivery speed **25%**.
- Led the organization's **first SOC 2 audit** and the annual cycles that followed, covering risk assessment, change management, disaster recovery and separation of duties.

Manager, Data Science & Analytics · GasBuddy

November 2018 – August 2021 · Regina, SK

- Set and executed the analytics roadmap, contributing to a **25% revenue increase** in the first year through new data-driven offerings and optimized marketing spend.
- Built a weekly US fuel demand model delivering forecasts two days ahead of the federal release at **97.4% accuracy**, then commercialized it — presenting to partners and serving as technical expert on sales calls that closed deals and strategic partnerships.
- Grew team capacity 50%, promoted three team members into leadership and lifted analytics adoption **40%** through self-service BI; led data governance and privacy compliance, and set company-wide KPIs working directly with the CEO, CFO and CMO.

Lead Data Scientist · GasBuddy

January 2016 – October 2018 · Regina, SK

- Established the company's first cloud data warehouse and BI platform on AWS Redshift — the foundation for its complete cloud migration.
- Built a churn model identifying at-risk customers at 85% accuracy, cutting churn **30%** in the first year; segmentation integrated into Salesforce Marketing Cloud and Airship lifted engagement **40%**.

Research Scientist · GasBuddy

September 2014 – December 2015 · Regina, SK

- Led development and launch of the industry's first consumer-facing product using machine learning to predict next-day retail gas price changes, at over **90% accuracy**.
- Awarded an NSERC Industrial Research and Development Fellowship; converted to a full-time position.

Research Associate, then Senior Research Associate · University of Regina

September 2006 – August 2014 · Regina, SK

- Machine learning and data mining research on group differences, interestingness and text classification — eight peer-reviewed publications presented across Canada, the US, the UK, Greece and Australia. Led the industry research partnership with GasBuddy that produced a daily commodity price model at over 90% accuracy, presenting to the CEO and senior management. Sessional Lecturer in Computer Science, 2008–2014.

FOUNDER

Founder · EventPulse — theeventpulse.com

March 2026 – Present · Regina, SK

- Built and operate a free local event discovery platform for Regina, aggregating more than 100 sources through an AI pipeline for extraction, deduplication, classification and confidence scoring — sole engineer and operator across ingestion, machine learning, infrastructure, analytics and daily operations.

EDUCATION

PhD, Computer Science (Data Science) — University of Regina, 2013. Thesis: Discovering Group Differences from Qualitative and Quantitative Attributes using Contrast Set Mining with Discretization and Measures of Interestingness.

BSc, Computer Science (Honours) & BSc, Mathematics — University of New Brunswick, 2004. Honours thesis: Parallel and Distributed Interface for Octave.

GOVERNANCE & EXECUTIVE DEVELOPMENT

Institute of Corporate Directors — governance education, ongoing, toward board service.

Rotman School of Management — Building Financial Acumen for Non-Financial Managers, 2026.

Dale Carnegie — Advanced Leadership; Leadership Training for Managers.

TECHNICAL

Cloud & infrastructure — Azure, AWS, GCP, Terraform, Kubernetes, Docker, Azure DevOps, Site24x7, ServiceNow, Corestack, Cloudflare

Data, ML & languages — Snowflake, Databricks, Redshift, Spark, Airflow, AWS Glue, SageMaker, scikit-learn, TensorFlow, PyTorch; Python, SQL, R, Java, C#, C++; Tableau, Power BI

Frameworks — Agile, DevOps, ITIL, TOGAF, FinOps, Microsoft Cloud Adoption Framework, SOC 2, ISO/IEC 27001 and 27017, NIST, GDPR, CCPA

AWARDS

NSERC Industrial Research & Development Fellowship, 2014 — national award encouraging PhD graduates into the Canadian private sector.

Best Paper, 4th International Conference on Resource Intensive Applications and Services, 2012.