Herman Justino

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Summary

Senior Data Engineer and AI Consultant skilled in designing scalable data infrastructure, optimizing pipelines and enabling robust data delivery. With hands-on experience in Python, Spark, SQL, cloud platforms and system automation.

Professional Experience

HJ Data Consulting   Toronto, ON
Lead Data Engineer and AI Consultant   March 2024 - Present

- Conducted exploratory and predictive modeling using **Python (pandas, scikit-learn, TensorFlow)** to identify trends in public engagement and policy research.
- Integrated and cleaned multi-source data (APIs, CSVs, and CRM exports) to support client analytics in education and healthcare sectors.
- Built secure, scalable database structures in **SQL** and **BigQuery**, improving query speed and data accessibility for research dashboards.
- Partnered with the **Vector Institute's Darmod Program** to advance responsible AI and machine learning data design practices.

Canadian Bank Note Company   Ottawa, ON
Senior Full Stack Software Engineer   November 2021 – March 2024

- Architected and optimized **data pipelines and microservices** for high-volume transaction systems in secure government environments.
- Enhanced ML-driven analytics pipelines, improving real-time processing latency by **34%** through query optimization and parallelization techniques.
- Developed DevOps tooling to automate data validation and deployment, reducing release cycles by **20%**.
- Mentored junior engineers on database normalization, CI/CD best practices, and secure data handling standards.

Skills

- **Programming & Data: Python, SQL, R, Java, C#, TypeScript, NodeJS**
- **ETL & Data Tools**: Salesforce (CRM), Pandas, scikit-learn, TensorFlow, Scrapy, Spark, Hadoop, cloud infrastructure (AWS, Azure, GCP),
- **Automation & DevOps:** Zapier, Git/GitHub, Docker, CI/CD, data pipeline optimization

Education

University of Colorado–Boulder
Master of Science: Data Science   April, 2026
Humber College   Toronto, ON
Postgraduate Cert. Information Technology – Big Data Analytics. GPA: 3.95   May, 2021