Herman Justino

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Summary

Master's-level Data Scientist with a software engineering foundation and passion for turning complex datasets into insights. I build end-to-end pipelines, integrate APIs, and create dashboards that help users see stories in their numbers. Expert Python, SQL, R and visualization tools.

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.
- Developed NLP pipelines integrating Semantic Scholar, News APIs, and BeautifulSoup for sentiment and discourse analysis — driving engagement from 5,000+ unique visitors and enabling clients to surface actionable insight.
- Created interactive visualizations in Power BI, Tableau, and Google Sheets, translating analytical findings into actionable insights for non-technical audiences.
- Currently working with the Vector Institute's Darmod Program, designing explainable AI frameworks for technical research.

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

- Built and maintained ML-driven analytics models for secure government applications, improving query response time by 34%.
- Designed automation scripts and tools in Python and C#/.NET, reducing data handling errors and saving teams 15+ hours weekly across operations and compliance functions.
- Led A/B testing and validation of data services to improve system reliability and performance.
- Supported integration of Power BI dashboards for compliance and risk teams, creating transparent visual insights into system operations

Skills

- **Programming & Data:** Python, SQL, R, Java, C#, Git, Docker, CI/CD, Azure, Zapier
- **Machine Learning & AI:** Predictive Modeling, Deep Learning (TensorFlow, PyTorch), NLP, Scikit-learn, Apache Spark, Hadoop
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Google Sheets
- **Soft Skills:** Analytical storytelling, stakeholder communication, process automation

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