







# Myles Harrison

Big Data & Data Science Consultant  
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## QUALIFICATIONS

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Subject matter expert in Big Data, machine learning, data visualization, and advanced analytics. Hands-on development, solution design, and management experience consulting in a variety of roles and client verticals (financial services, retail, telecom, health & public sector)

## TECHNICAL SKILLS

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*Cloud:* AWS (S3, Redshift, EMR, Glue, Athena, Lambda), GCP (BigTable/BigQuery, Dataproc)  
*Data Science:* R (ggplot, dplyr, caret, etc.), python (sklearn, pandas, numpy, jupyter, matplotlib)  
*Big Data:* Spark, Hive, Hadoop, SQL, Pig, Mahout  
*Data Visualization:* Tableau, Spotfire, PowerBI, Qlikview  
*Development:* python, bash, git, Jenkins, scala, docker

## EXPERIENCE

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**Accenture** 2017 - Current  
*Big Data Consultant*

- Developed anomaly detection framework for time series data at scale on AWS EMR in pyspark
- Managed team of Big Data developers and machine learning engineers productionizing marketing score models (batch and streaming) for Canadian telco on Hadoop, Nifi, Spark, and Cassandra
- Analyzed terabytes of clinical, financial, and appointment data for leading US veterinary care provider
- Provided recommendations for Canadian "Big 5" bank's Enterprise Data Platform spanning data science and analytics, DevOps, security, and operating model
- Gathered requirements, designed, and developed dashboards of omnichannel data for Canadian bank

**PwC** 2016  
*Senior Associate, Consulting & Deals*

- Modeled rare-event financial time series prediction problem using R, python (numpy / sklearn)
- Design and build of cost-to-serve model for CPG supplier from manufacturing to profitability
- Visualized retail inventory and sales data for product rationalization and informing purchasing strategy
- Built dashboards for troubleshooting and quality control of scientific survey data using Spotfire
- Processed and analyzed digital lottery and gaming customer behavior and demographic data using R

**Eyereturn Marketing** 2015  
*Data Scientist*

- Independently developed similarity detection engine for ad fraud at scale using Pig and python UDFs

## SapientNitro

2013 - 2015

### *Senior Associate, Marketing Strategy & Analysis*

- Created data pipeline for association rule learning recommendation using Hadoop, Hive and Mahout
- Independently ran testing program for major retailer's online circular: designed, planned, executed and analyzed A/B and multivariate tests
- Analyzed multichannel digital analytics data using various tools (Sitecat, R, Tableau, SQL, Excel)
- Served as supervisory SME for event-based online/offline predictive modeling (logistic regression)
- Developed and executed ETL processes between disparate data sources (NoSQL, web analytics)
- Mentored and managed junior associates in analysis, visualization and strategy work

### *Associate, Marketing Strategy & Analysis*

- Consulted on best practices in testing and optimization in e-commerce for Fortune 50 retailer
- Designed, coded and deployed A/B & multivariate tests (jQuery, HTML, CSS)
- Performed statistical analyses of digital properties using analytics data across multiple channels
- Delivered ad hoc analyses, visualizations and reports for clients in different verticals

## Aon-Hewitt

2011

### *Setup Configuration Specialist, Defined Benefit*

## Scotiabank

2010

### *Quality Assurance Analyst*

## Natural Resources Canada

2008 - 2010

### *Geomagnetic Hazard Analyst*

- Processed large quantities of scientific data in batch using IDL, shell scripting, and cron
- Performed statistical analysis of long-term geomagnetic fluctuations in Canadian near-arctic regions
- Development code for mathematical modelling of telluric currents in frequency domain
- Co-authored report on geomagnetic hazard assessment of proposed northern gas pipeline
- Developed code for analysis and modelling of radiation environment on Molniya satellite orbit

### *Scientific Assistant, Geomagnetism*

- Performed statistical analysis of geomagnetic observational survey data quality index using R
- Maintained integrity of local and remote real-time data repositories via SSH and bash scripts
- Maximized up-time of network by instructing and advising remote observatory operators

## EDUCATION

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### University of Melbourne

2007

#### *Graduate Diploma, Education (Mathematics)*

**Melbourne, Australia**

### University of Waterloo

2006

#### *Honours Bachelor of Mathematics (Applied Mathematics)*

**Waterloo, Ontario**