

HILARIO CALDERON

RESUME

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Data Analyst Summary

Motivated, teamwork-oriented and responsible Data Analyst with significant experience in increasing comprehension of reports and presentations by the average professional. Highly educated in data science and business analytics and statistics. Fluently in multiple languages.

TECHNICAL (IT) SKILLS

Data Management

- Database design and management, Relational databases (MySQL),
- Data mining, Data Quality Assessment and Data Analysis, Tableau and Qlik,
- Data warehousing, Regression analysis, Data science research methods,
- Pattern & Trend Identification, including Data Insights Visualization,
- Problem-solving and troubleshooting, Pattern and trend identification,
- Python ETL Tools for data processing
- Data analytics, data science, especially with the powerful Pandas data science library,
- Business intelligence (BI) with Big Data and Pro level in Microsoft Excel Pivot Table,
- Risk management, System administration, Quantitative methods,
- Experimental design & analysis, Tech support, Survey creation,
- Math (statistics and probability), Logic and analysis,
- ESRI ArcGIS Pro and QGIS for spatial analysis.

Data Science

- Web scrapping: BeautifulSoup, Pandas, Restore, Scrappy, URL Lib, API, Data Feed
- Data analysis: Feature Extraction, Data Wrangling, Exploratory Data Analysis
- Data visualization: PowerBI, Matplotlib, Gplot, SeaBorn, D3.js, Tableau
- Programming languages: Python, R programming, Json, SPSS
- Math and Statistics: Lineal Algebra, Differential calculus, Clustering Algorithms
- Machine Learning: Regression, Reinforcement learning, Deep learning, Dimensionality reduction,
- I.D.E: Jupyter Notebook, VisualStudio Code, Spyder, GeoPandas
- Data cloud deployment: AWS, Azure

Geospatial data Infrastructure

Jira, Adonis, gSuite, ArcGIS 10.x, ArcGIS Pro and PostgreSQL/PostGIS, SAGA, ERMAPPER, MAPINFO, Global Mapper Scripting, Quatum GIS and OpenJUMP, EasyGIS

Research

- Data Science Research Methods,
- Data Mining, Survey Creation,
- Focus Group, Data Warehouse

WORK EXPERIENCE

Data Science Analyst

LASGEO. Ontario. Canada

Jul 2013 - present

- Responsible for the Master Data Management Policy and Procedure in the company, where I am in charge of the set of process related to the definition of Problem Statement/ Business Requirement; Data Collection with a focus on always new ways to get valuable information about company consumers and competitors; Data Cleansing and having a common metadata layer in place means sharing information across all your management and analytics platforms; Data Exploration & Analysis with the goal to analyse how data is coming into your business and how the company can further improve the process; Data Modelling to make the data storage and retrieval process as simple as possible, including data security and finally, Deployment & Optimization from / to the database and cloud data services.
- Responsible for modelling complex data-mining problems, and multi-criteria risk through the use of statistical, algorithmic, mining and visualization techniques.
- Additionally, in this role worked with integrating and preparing large, varied data-sets, building specialized database and computing environments, and communicating results.
- Documenting Customer, Product and Organization and their data models
- Working with the management team addressing and metadata standards, Data Cleansing & Standardization Process, Data Integration & Data Enrichment.
- Management and organizing the daily of the Agile project management methodology and SCRUM

Business Intelligence Analyst | DBA

Caddle Inc., St Catharines, Ontario, Canada

Feb 2019 – Apr 2020

- o Worked with IT department to ensure customer specifications are correctly updated in the production database
- o Designing daily ETL processes for fetching data from many different systems and loading it into a target data warehouse for Business Intelligence reporting.
- o Running the Customer Master data Management and Field Alignments in the company.
- o Introduced ESRI ArcGIS Pro for Statistical analyses to identify patterns in market events that might otherwise seem random and unconnected, such as consumer behaviour in Canada as a function of the age groups and income brackets.
- o Business intelligence (BI) with Big Data and Pro level in Microsoft Excel Pivot Table,
- o Monitored analytic and metrics results and Implemented new data analysis methodologies
- o Reviewed customer files to ensure integrity of data collection and utilization
- o Performed data profiling to identify and understand anomalies and working with data (relational databases, raw files - CSV, json, xml, xlsx, HDFS).
- o Designed/developed and implemented data processing pipelines (ETL) using Python and other tools.
- o Build database systems of high availability and quality depending on each end user's specialized role,
- o Designed and implementing databases in accordance to end user's information needs and views,
- o Defined users and enabled data distribution to the right user, in the appropriate format, and in a timely manner,
- o Maximized the Data utility in a timing manner by applying time-saving concepts to ERP database structures
- o Full involved with Project Management methodologies and Software Development Life Cycle.
- o Experienced in all stages of a project, from requirements gathering to production deployment and operational support.

Contact / Reference: Ransom Hawley - ransom@caddle.ca

Senior Project Manager

Aquatic Science Investigation Group., Hamilton, Ontario, Canada

Aug 2017 – Jan 2019

- o Converted data into actionable insights by predicting and modelling future outcomes.
- o Utilized MS SQL, data warehousing programs, Tableau and other dashboard/visualization toolsets for data intelligence and analysis.
- o Collected and analysed data on established and prospective customers, competitors, and marketing channels and sources.
- o Prepared reports that interpreted consumer behaviour, market opportunities and conditions, marketing results, trends

Contact / Reference: Bob Clarke - bclarke@asi-group.com

Data Research Associate

Dalhousie University/MEOPAR. Halifax, Nova Scotia, Canada

Mar 2013 – Jul 2017

- o Worked with Azure Cloud Services as a platform as a service (PaaS). Created support applications that are scalable, reliable, and inexpensive to operate. The App Service was hosted on virtual machines (VMs). We installed our own software on VMs that use Azure Cloud Services, and accessing them remotely.
- o Completed market analysis, resulting in a 21% increase in sales and Used SPSS and Minitab software to track and analyse data.
- o Conducted research using focus groups on 3 different products and increased sales by 11% due to the findings.
- o Spearheaded data flow improvement and Developed Key Performance Indicators to monitor sales and decreased costs by 17%.
- o Created a set of procedure and documentation on Risk management and evaluation,
- o Wrote training materials and documentation in areas of data management, software development and scheduling to be able to share knowledge and improve processes for the Department of Industrial Engineering at
- o Created a learning curriculum to support Macros / C / C# / Visual Basic to solve tasks related to incident prevention, using advanced statistical processing software (SPSS and SAS) for the multivariate analysis and the results presented the information in user-friendly maps, graphical models and reports.

Contact / Reference: Ronald Pelot - Ronald.Pelot@dal.ca

Technical Data Analyst

Bedford Institute of Oceanography. Halifax, Nova Scotia, Canada

Jan 2011 – Mar 2013

- o As Data Scientists work closely with the clients, data stewards, project/program managers, and other IT teams to turn data into critical information and providing knowledge used to facilitate organizational decisions. Data quality ensuring the data was congruent and reliable. Proposed innovative ways to look at problems by using data mining.
- o Worked with Oracle Database and ran analytics on all data types with Oracle's single converged database engine and employed blockchain for data misuses prevention, leverage the flexibility of JSON documents, and train machine learning algorithms inside the database.,
- o Worked on MAPINFO, Global Mapper Scripting, Quatum GIS and OpenJUMP, EasyGIS

Contact / Reference: Jonathan Griffin - Jonathan.Griffin@dfo-mpo.gc.ca

Geo-DataViz Consultant

Evans Computer Applications. Halifax, Nova Scotia, Canada

Nov 2009 – Jul 2011

- Experience working with PostgreSQL/PostGIS, Oracle Server, SAGA, ERMAPPER, MAPINFO, Global Mapper Scripting, and geospatial data and tools including collecting, processing and feeding data into on-line GIS systems
- Interacted in the process of discovering new patterns from large datasets for the decision-making process. Supported the data trends and risk management using an experimental and iterative approach. Also, Implementing Data visualization approach to be able to present back the technical findings to the business by exposing assumptions and validation work in a way that can be easily understood by stakeholders and final users in general

Contact / Reference: Valerie Evans - val.evans@gmail.com

Geo-Spatial Data Analyst

University of Havana. Cuba

Oct 2006 – Oct 2009

- Worked on Machine learning as part of the application of artificial intelligence (AI) in the development of systems with ability to automatically learn and improve from experience without being explicitly programmed.
- Focused on the development of computer programs that can access data and use it learn for themselves.
- In charge of geovisualization tools applied to marine biology. Providing multiple and transdisciplinary stakeholders with the technical basis to make environmental decisions considering a multicriteria factors in the process. Promoted the use of the geovisualization as georeferenced model in the research of complex dataset of environmental data in different scenarios.

Senior Data Engineer and Business Analyst

National Hydrographic and Geodetic Office. Cuba

Feb 1990 – Oct 2006

Excel in Interacting in the quality control, experienced on designs and conducts Quality Assurance and Quality Control (QA/QC) procedures on mapping and data products; Conducting evaluations of cartographic and GIS principles and project oriented. As well well-known at providing secure network design, systems analysis, and full life cycle project management. Hands-on experience leading all stages of system development efforts, including requirements definition, design, architecture, testing, and support.

Contact / Reference: N/A

EDUCATION

Doctorate in Data Analytics and Geomatics

University of Havana, Havana, Cuba

12/2004

Master's Degree in Engineering Operations

International Naval Academy, Baku, Azerbaijan

08/1990

Bachelor Engineer in Hydrography and Marine Geophysics

International Naval Academy, Baku, Azerbaijan

08/1988

OTHER (PERSONAL) SKILLS

Languages	English, Russian, Spanish and French (Proficient)
Communication skills	Skills gained through my experience as Senior Project manager: Good active listening, Confidence, Conflict resolution and time management organization As a Senior data researcher acquired plenty of problem-solving skills: Creativity, Research, Risk management and Teamwork
Organisational / managerial skills	Communication and public speaking, Clear writing and report writing, Critical thinking, Attention to detail, Risk assessment, Training and instructing, Reducing jargon, Organization, Teamwork & collaboration, Creativity, Leadership, Project management, Decision-making, Time management, Efficiency

Other skills

As a result of my learning journey, I am taking constantly online courses for different Data Science and Geospatial topics and work independently on projects in my free time. Some of them include:

- Machine Learning Engineer Nanodegree:
 - 1. TensorFlow: matrix factorization and softmax - Google
 - 2. Clustering in ML - Google
- Statistics Specialization:
 - 1. Inferential Statistics - by Duke University - Coursera
 - 2. Introduction to Probability and Data - by Duke University - Coursera
 - 3. SPSS training.
 - 4. MatLab for Engineers and Scientist.
- Big Data Foundations
 - 1. Hadoop and Spark - by IBM - Big Data University
- R programming
 - 1. Data Science with R - Udemy
 - 2. R for Engineers
- Python
 - 1. Data Science and Machine Learning Bootcamp - Udemy
 - 2. Python in ArcGIS. ESRI
- React
 - 1. Nanodegree on React DOM & JSX - Scrimba (on the go and coding ...)
- Ruby Programming Language
 - 1. Jekyllrb.
 - 2. Learn Ruby - Codecademy.