GABRIEL BOGO

Vancouver, BC – Canada
+1 778 251 3449

gabrielmedeirosbogo@gmail.com
www.gabrielbogo.com
linkedin.com/in/gabrielbogo
github.com/GabrielBogo

ACADEMIC HISTORY

- **Master of Data Science**
  UBC, Vancouver, CANADA
  Graduation date: June/2019
  Final grade: 94.8/100.0 **(93st** percentile**)**

  B.S. Mechanical Engineering
  UFSC, Florianopolis, BRAZIL
  Graduation date: February/2014
  Final grade: 8.7/10.0 **(91st** percentile**)**
- **International Exchange Program**
  UCLA, Los Angeles, USA
- **GRE Score**
  Verbal: 167 (**98th** percentile)
  Quant: 167 (**92nd** percentile)

RELEVANT COURSEWORK

- **Supervised Learning**
  Logistic Regression, SVM, Random Forest, Naïve Bayes, k-NN, Deep Learning, CNN.
- **Unsupervised Learning**
  PCA, K-means/medians/medoids, DBSCAN, content-based and collaborative filtering.
- **Algorithms and Numerical Methods**
  Discrete Optimization, Linear and Dynamic Programming, Numeric and Automatic Differentiation, Gradient Descent.
- **Natural Language Processing**
  Text preprocessing, co-occurrence matrix, dense word embeddings (word2vec, fastText)
- **Linear Regression**
  Ridge, Lasso, Elastic Nets, change of basis, GLMs, quantile and robust regression, survival analysis, handling missing data.
- **Time Series Analysis**
  Season and trend decomposition, exponential smoothing, Holt-Winters, ARIMA models.
- **Statistical Inference and Computation**
  Hypothesis testing, bootstrapping, Bayesian MCMC, experimental design, A/B testing.

PROGRAMMING SKILLS

- **Python:** Numpy, Pandas, Sklearn, Matplotlib, SQLAlchemy, Keras, scrapy
- **R:** tidyverse, ggplot2, shiny, RJAGS
- **SQL:** database design, PostgreSQL
- **Workflows:** bash, Git, Make, Docker, Travis
- **AWS:** EC2, S3, IAM, RDS, SES, SQS, Elastic Beanstalk, Route53, Terraform

LANGUAGES

Portuguese (native), **English** (fluent), **Spanish** (proficient)

PROFESSIONAL EXPERIENCE (4 yrs 2 mos)

Data Scientist, Municipality of Joinville
Secretariat of Urban Planning
2017 to 2018 (1 yr) – Joinville, BRAZIL

- Set up AWS cloud infrastructure and developed an ETL procedure to analyze Waze CCP's traffic data: **https://git.io/vxORe**
- Developed and automated a prioritization methodology for the city's most critical streets: **https://git.io/fxt98**
- Scraped, stored and cleaned data from the city's entire network of traffic radars: **https://git.io/vxOzS**
- Lectured at the LatAm Waze Connected Citizens Summit: **https://bit.ly/2KY8Ikv**

Founder and Backend Engineer, Quem vai?
2016 to 2017 (1 yr 4 mos) – Joinville, BRAZIL
An online marketplace of group experiences powered by an effective platform for social payments – **https://git.io/vx32G**

- Raised US$ 30k and administered the startup's finances.
- Led Customer Development activities – customer interviews, lean experimentation cycles, BM Canvas, financial modeling.
- Developed the web app backend using Python and Django and managed DevOps using AWS.

Business Analyst, OC&C Strategy Consultants
2014 to 2016 (1 yr 10 mos) – Sao Paulo, BRAZIL

- Created the financial model of a long-term strategy project for the country's largest national Telecom carrier **(Ecuador).**
- Carried out crucial data analyses of a pricing optimization project for a Benefits & Rewards multinational **(Brazil, Chile).**
- Created the financial model of a market entry project for a Home Fragrances multinational player **(Brazil, USA).**

Intern, Jacobs Engineering Group Inc.
2013 to 2014 (5 mos, pre-grad) – Leiden, NETHERLANDS

- Reviewed equipment datasheets, requisition texts and inspection plans for equipment in the Oil & Gas industry.

Intern, NEO Junior Engineering Firm
2009 to 2013 (3 yrs, pre-grad) – Florianopolis, BRAZIL
A student-run engineering firm that delivers customized technical and scientific projects to large industrial businesses

- Designed an electro-mechanical device to identify wrong connections in an assembly line of induction motors.
- Designed a faster way of cooling rotors after an aluminum casting process, reducing work in process.
- Led a team of 12 students and a pipeline of more than 8 simultaneous projects.

PUBLIC PROJECTS

Lithology Prediction From Drill Telemetry Data
2019 (2 mos) – Master of Data Science, Capstone Project
Partner: **Quebec Iron Ore** – **https://git.io/fj5Ug**
Used telemetry data from mining drills, cross-referenced with chemical assay labels, to create a machine learning model that predicts the rock type with an accuracy of 82%, reducing misclassification in 75% when compared to the current model.