

MARCELO SANCHES

Boulder, Colorado

marcelo.sanches@colorado.edu • 303.931.2796

www.linkedin.com/in/big-bang-data • github.com/BigBangData • rpubs.com/BigBangData

Motivated professional and Master of Business Analytics graduate with an aptitude for critical thinking, deriving keen insights, and learning quickly. Renaissance man and confident communicator with professional presence polished by years of performance in front of large crowds. Detail oriented with strong work ethic seeking a data analytics role to help drive strategic organizational growth.

EDUCATION

UNIVERSITY OF COLORADO BOULDER, LEEDS SCHOOL OF BUSINESS
Master of Science in Business Analytics - Security Track Boulder, CO
May 2019

UNIVERSITY OF COLORADO BOULDER
Doctor of Musical Arts; Master of Music Boulder, CO
May 2008

OBERLIN COLLEGE
Bachelor of Music Oberlin, OH
May 1999

COMPETENCIES

DATA ANALYTICS

Applied Statistics (Inference/Prediction) ∴ Hypothesis Testing ∴ Experimental Study Design
A/B Testing ∴ Regression and Classification Methods ∴ Database Modeling and Querying
Structured and Unstructured Data Pre-Processing and Modeling ∴ Big Data Analytics
Supervised and Unsupervised Machine Learning ∴ Data Visualization ∴ Reproducible Research

Languages and Tools:

R, Python, SQL, Git, Markdown, Jupyter Notebook, Spark, Kafka, Elasticsearch, Kibana

SECURITY

Security Testing ∴ Threat Modeling ∴ Network Analysis ∴ Reconnaissance
Vulnerability Assessment ∴ Exploitation ∴ Password Cracking ∴ Web App Testing

Languages and Tools

Linux, Sysinternals, Metasploit, Wireshark, Sguil, Maltego, Kali Linux Tools

RELEVANT 2019 PROJECTS

Hunter Douglas Projects – 5-member team:

- Completed two CRISP-DM prediction projects for Hunter Douglas
- Cross-evaluated a variety of models and delivered insights and recommendations to leadership

Elasticsearch Recommender for Online Retail – solo project:

- Created an MVP item-item recommender system for dynamic, streaming data services
- Written in Python using Kafka producers and consumers; [hosted in GitHub](#)

Health Coach CO Project – 4-member team:

- Conceived and conducted analytics projects using the BRFSS data for targeted marketing
- Used Ordinal Logistic Regression and K-means clustering to develop a wellness program

Python Distributed File System – solo project:

- Developed in a server-client architecture using TCP socket programming
- Implemented basic security, reliability, and traffic optimization; [hosted in GitHub](#)

CERTIFICATES

JOHNS HOPKINS UNIVERSITY
Data Science Specialization

Coursera
Feb 2018

- Data Scientist's Toolbox
- R Programming
- Getting and Cleaning Data: *Samsung Sensor Activity* tidy data project, [hosted in GitHub](#)
- Exploratory Data Analysis: *Air Quality* project, [hosted in GitHub](#)
- Reproducible Research: *The Impact of Harmful Weather in the U.S.*, [hosted in Rpubs](#)
- Statistical Inference: a demonstration of the Central Limit Theorem, [hosted in Rpubs](#)

DUKE UNIVERSITY
Statistics with R Specialization

Coursera
Oct 2017

- Introduction to Probability and Data

PROFESSIONAL EXPERIENCE

Freelancing Business

Brazil, India, USA

Orchestra Cellist and Soloist, Collaborator, Educator, Arranger & Composer

1996-2018

- Acted as principal, assistant principal and section cellist of numerous local and regional orchestras
- Held various roles as performance and composition educator at dozens of schools and organizations
- Successfully built a thriving sole proprietor business in Brazil, India, and in Colorado since 2002

OTHER

Native Portuguese speaker

Avid hiker and world traveler

Non-fiction reader (*The Order of Time, Not Even Wrong*)

Podcast listener (*Freakonomics, Not So Standard Deviations*)