

Jose R F Junior

Santiago Metropolitan Area



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Summary

Data Scientist

Repository:

<https://github.com/GCPBigData>

Qwiklabs

https://google.qwiklabs.com/public_profiles/45b9712b-f438-49b9-a02f-d5ef69d0fcfa

Games

<https://joserfjunior.itch.io/>

Books

<https://drive.google.com/drive/folders/1h7QRYElu4uv3XFuu9xVbuqKSEJlqpKk7?usp=sharing>

Experience



Big Data Developer

GooGolPlex

Jul 2020 - Present (1 month +)

#Project: Apache Parquet

#Scala, Python, Julia



Big Data Developer

GooGolPlex

May 2020 - Present (3 months +)

Full-time

Location Santiago, Santiago Metropolitan, Chile

#Project: Feigenbaum $\delta = 4.66$

#Parallel programs on JVM and Scala.



Servidor Público Federal

INSS

May 2008 - Present (12 years 3 months +)

The main formal sources of Brazilian social security law are:

Federal Constitution of 1988 (arts. 193 a 204);

Organic Law on Social Security (Lei nº 8.212/91);

Organic Law of Social Security Benefits (Lei nº 8.213/91);

Complementary law (Lei n. 108/2001);

Complementary law (Lei n. 109/2001);

Decree - Social Security Regulation (Lei n. 3048/99).



Data Scientist

GooGolPlex

Mar 2020 - May 2020 (3 months)

#Project: $\phi = 1,61$

#Trend, Cycle, Seasonality, Random

#Neural Networks, TensorFlow, Keras.

Forecast



Data Scientist

GooGolPlex

Jan 2020 - Mar 2020 (3 months)

Project: Edwin Smith

Bayesian Predictive System for Detection of Breast Cancer.

Pneumonia Symptoms and Diagnosis

#Neural Networks, TensorFlow, Keras, PyTorch.

#Oculus VR, Unity.



Big Data Engineer

GooGolPlex

Oct 2018 - Mar 2020 (1 year 6 months)

Manage the timely flow of information to users. Collaborate and interact with different functional users, in the design of BI / Bigdata solutions. Identify, plan and extract information from different sources in a timely manner.

Development of Integrations (via API, ETL, others) to data sources in various formats.

* Develop BI / Big Data solutions, focused on the implementation of Landing / Raw data ingests towards the BI / BigData platforms, along with the development of data consumption and exploitation areas

* Creation of data structures for DataScientist and Business Analyst work

* Development of prototypes (Mockup) of Dashboard Analytics

Perform ETL maintenance of data extraction, datawarehouse, datamart and management models.

Responsible for the data quality and timeliness of the Company's information. Analyze incidents presented in the operation of ETL, making correction or referring to areas responsible for resolution.

Experience in data pipelines development.



Google Cloud Big Data Engineer

GooGolPlex

Dec 2019 - Jan 2020 (2 months)

Project: Edsger Dijkstra

Graph Analytics for Big Data

Neural Networks and Deep Learning

TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Big Data HDFS, MapReduce and Spark RDD

Big Data Analysis: Hive, Spark SQL, DataFrames and GraphFrames
Big Data Applications: Machine Learning at Scale
Big Data Applications: Real-Time Streaming
Big Data Modeling and Management Systems
Big Data with Machine Learning



Google Cloud Big Data Engineer

GooGolPlex

Jun 2019 - Jan 2020 (8 months)

Project: Ramanujan

Focuses on the transfer of data to GCP (Cloud VPC).
Derive business insights from extremely large datasets using Google BigQuery
Train/evaluate and predict using machine learning models using TensorFlow and Cloud ML
Leverage unstructured data using Spark and ML APIs on Cloud Dataproc
Design and build data processing systems on Google Cloud Platform
Process batch and streaming data by implementing autoscaling data pipelines on Cloud Dataflow
Migrating local infrastructure from Hadoop to Google Cloud Platform provides an overview of the migration process, with the focus on moving large and persistent clusters to an ephemeral model.
Migrate data from HBase to Cloud Bigtable.
Migrate data from HDFS local to Google Cloud Platform.
Migrate Hadoop jobs from local infrastructure to Cloud Dataproc describes the process of running your jobs in Cloud Dataproc and other GCP products.
Copy data from Cloud SQL to BigQuery using Apache Airflow.



Senior Java Architect

Zaal Tecnologia

Feb 2018 - Dec 2019 (1 year 11 months)

Work on Medium, Large Projects to ensure proper design and architectural principles are being followed. Work closely with business teams and IT teams to translate user's requirements into technical solutions. Prioritize requirements and create conceptual prototypes. Work on technology evaluations for the team. Propose any new technology that fits into the current architecture and provides value. Work with the team to define the best technological practices to support the business initiatives.

Design and build scalable, high-volume , secured , HA applications

Design/Architect micro services in cloud environment

Knowledgeable in agile development

Strong debugging, problem solving and investigative skills. Ability to assimilate disparate information (log files, error messages etc.) and pursue leads to find root cause problems.

Mentoring people from your team and others

Knowledgeable in JVM and performance tuning

Experience in Database like PosrgreSQL, etc.

Experience in Java, J2EE Design Patterns, Object-Oriented design, Algorithms and Optimizations

Experience in Spring framework, hibernate, Angular

Experience in service oriented design & implementing RESTful APIs, JSON, Web services

Experience working with Git, Jenkins,Maven, Tomcat



DevOps Developer

Zaal Tecnologia

Nov 2018 - Feb 2019 (4 months)

Consultant DevOps : Continuous integration, Continuous delivery, Microservices, Infrastructure as code, Monitoring and logging, Communication and collaboration. Docker production platform Amazon Elastic Container Service, AWS Lambda serverless computing. GraphQL IDL (Interface Definition Language) or SDL (Schema Definition Language), gRPC Google (Remote Procedure Call) HTTP/2.



Senior Software Development Engineer

AMcom Sistemas de Informação

Jul 2018 - Dec 2018 (6 months)

Java 8, Hibernate, Spring (Spring Boot, Spring Data), Oracle / PostgreSQL / Microservices / RabbitMQ / Angular 6, CI/CD pipeline in the CLOUD.

Senior X also incorporates artificial intelligence, allowing for greater decentralization of systems for users, we implement Machine Learning algorithms to provide information that makes our customers' decisions faster and more assertive.



Software Developer

Veolia France

Aug 2018 - Nov 2018 (4 months)

Java 8, Java Script, Hibernate, Spring (Spring Boot, Spring Data), PostgreSQL, Microservices, Vue.



Machine Learning Engineer

GooGolPlex

Mar 2018 - Oct 2018 (8 months)

Main Responsibilities

Design of algorithms for multi-sensor fusion with the goal of vehicle-surrounding object tracking and prediction. Contribute to production-quality implementation of above algorithms into C++/Python/Java.

- + Design and implement data and control flow needed to integrate new LIDAR
- + Develop, deploy, and optimize custom hardware drivers
- + Develop novel calibration processes involving multiple sensors and actuation stages in the loop
- + Analyze data collected from sensor systems, and develop tools to help do so
- + Support sensor manufacturing by customizing existing systems to improve test integration, assembly tracking, and reporting pipelines
- + Design core blocks for FPGAs



Machine Learning Engineer

GooGolPlex

Jan 2018 - Mar 2018 (3 months)

Developing solutions:

MQTT, Internet of Things connectivity protocol. It is an extremely lightweight publish-subscribe communication model, useful for connections in remote locations where a small code footprint is the order of the day.



Machine Learning Engineer

GooGolPlex

Jan 2017 - Mar 2018 (1 year 3 months)

Machine Learning Engineer : GooGolPlex

Development of Machine Learning : Navigation Mesh / Python / TensorFlow

C # , WebGL , Unity , Cloud Firestore , Realtime Database , Neo4J.



Analysis, Modeling and Development of Web Applications

BFM - Biometria Farmaceutica Montevideu

Jun 2017 - Jan 2018 (8 months)

Java 8, Java Script, Hibernate, Spring (Spring Boot, Spring Data), PostgreSQL , (Spring Boot, Spring Data), Oracle / PostgreSQL / Microservices / RabbitMQ



Analysis, Modeling and Development of Web Applications

Secretaria da Saúde do Estado do Ceará - SESA

Jan 2013 - Dec 2017 (5 years)

Analysis, Modeling and Development of Web Applications - Android (Integrated System of Organ Donation).

Analysis, Modeling and Development of Java Applications (Sistema GERCORREIO).

Analysis, modeling and development of web applications using JSF, JPA, Spring, Spring Security, Hibernate, Envers, Primefaces, JasperReport, Tomcat, GlassFish, Maven, JUnit, JQuery, Oracle and PostgreSQL.

Development and implementation of biometric system maintenance. (BIOMETRY)

Maintenance of systems in PHP (Gnuteca, Ocomon and endemic control system - pMapper).

Customization and implementation of the Maker Maker (shell) system.

Analysis and development of web applications with JSF, JPA, Spring, Spring Security, Hibernate, Envers, Primefaces, JasperReport, Tomcat, GlassFish, Maven, JUnit, JQuery, Oracle and PostgreSQL.

Analysis and Development of web applications using the Wave Creator (internal demands - SDI) of the system.



Analysis, Modeling and Development of Web Applications

Detran - Departamento Estadual de Trânsito

Mar 2015 - Dec 2015 (10 months)

Sharing biometric technology together with the organs of the Government of the State of Ceará, partnership between the Ministry of Health and the Department of State Transit - DETRAN-CE.

Technology

* Java

* Neo4J.



Analista de Sistemas

Secretaria da Saúde do Estado do Ceará - SESA

Jun 2012 - Dec 2013 (1 year 7 months)

Analysis, Modeling and Development of Web Applications - Android (Integrated System of Organ Donation).

Analysis, Modeling and Development of Java Applications (Sistema GERCORREIO).

Analysis, modeling and development of web applications using JSF, JPA, Spring, Spring Security, Hibernate, Envers, Primefaces, JasperReport, Tomcat, GlassFish, Maven, JUnit, JQuery, Oracle and PostgreSQL.

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Analysis and Development of web applications using the Wave Creator (internal demands - SDI) of the system.



Analysis, Modeling and Development of Web Applications

Núcleo de Tecnologia Industrial do Ceará

Mar 2012 - Nov 2013 (1 year 9 months)

System that lists the Certificates of Calibration Standards of the LME laboratory.

Library System.

The Customer Service Center efficiently meets demands of the public and private sector focused on the following areas:

Food (Physical-chemical and Microbiological);

Chemistry
Construction;
Coating rocks and corrosion surface treatment;
Mechanical and materials;
Electrical, automation, mechanics and energy;
Business Incubator,
Nucleus of Technological Innovation - NIT
SIGI
Technology
* Delphi
* Java
* PostgreSQL



Programador Java

BRQ Digital Solutions

Dec 2011 - Oct 2012 (11 months)

Java Programmer - Financial System.

Technology

* Java
* PostgreSQL
* Oracle



Analista de Sistemas

Hapvida Saúde

Mar 2011 - Jan 2012 (11 months)

Systems Analyst Biometric Projects.
Self Service Terminal.

Technology

* Java
* PostgreSQL



Analista de Sistemas

M Brasil

Feb 2002 - Mar 2006 (4 years 2 months)

Systems Analyst.

* Delphi
* PostgreSQL
* Interbase



Administrador de Servidores Linux

Brazilian Army (Exército Brasileiro)

Jan 1999 - Jan 2001 (2 years 1 month)

Linux Server Administrator
HTML Programming



Programador VB/Clipper

MICROLINEA

Apr 1997 - Jan 1999 (1 year 10 months)

VB / Clipper Programmer

Education



Udacity

Data Engineering Nanodegree (In Progress)

2019 - 2020

Study Projects:

<https://github.com/DevJoseWeb/Data-Engineer-Udacity> ##

Project 1: Relational Databases - Data Modeling with PostgreSQL. ##

Developed a relational database using PostgreSQL to model user activity data for a music streaming app. ##

Project 2: NoSQL Databases - Data Modeling with Apache Cassandra.##

Designed a NoSQL database using Apache Cassandra based on the original schema outlined in project one. ##

Project 3: Data Warehouse - Amazon Redshift.

Created a database warehouse utilizing Amazon Redshift.

Project 4: Data Lake - Spark

Scaled up the current ETL pipeline by moving the data warehouse to a data lake. Skills include:

Project 5: Data Pipelines - Airflow

Automate the ETL pipeline and creation of data warehouse using Apache Airflow.



Universidade Federal de Rondônia

Full Degree in Mathematics

2004 - 2008

The Bachelor of Applied Mathematics and Computing aims to train with the motivation of training in solid mathematical and scientific research and training after integration into the active life. In the course of Bachelor's degree in-depth training in key areas such as Mathematical Analysis, Geometry, Algebra, Probability and Statistics, Numerical Analysis and Theory of Computation.



Udacity

Machine Learning Engineer, Mechanical Engineering

2017 - 2018

Linear Regression

- Logistic Classification
 - Convolutional Neural Networks
 - Recurrent Neural Networks - Time Series
 - Autoencoders - Reduction of dimensionality
 - Generative Neural Adversarial Networks - Automatic Image Generation
- Regression
- Advertising expenses -> sales value
 - Temperature, humidity and air pressure -> wind speed
 - External factors -> dollar value
 - Examination results -> probability of a patient surviving
 - Investment risk

- Credit card charges, history -> limit
- Previous values -> product values

ranking

- Direct marketing
- Customer dissatisfaction
- Credit risk
- SPAM Filters
- Separation of news
- Voice recognition
- Face Recognition
- Disease prediction

Convolutional neural networks (CNN)

- Used for computer vision
- Standalone cars, pedestrian detection (one of the reasons deep learning works well)
- In general, better than SVM (support vector machines)



deeplearning.ai

AI for Medicine Specialization, Medicine

2020 - 2020

<https://github.com/GCPBigData/AI-For-Medicine>

Medicine is one of the fastest-growing and important application areas, with unique challenges like handling missing data. You'll start by learning the nuances of working with 2D and 3D medical image data. You'll then apply tree-based models to improve patient survival estimates. You'll also use data from randomized trials to recommend treatments more suited to individual patients. Finally, you'll explore how natural language extraction can more efficiently label medical datasets.

Licenses & Certifications



Construindo Aplicações Web Com o Novo Angular 4 - Udemy

UC-SQKTZCW8



Machine Learning e Data Science com Python - Udemy

UC-BV3SCVYP



Construindo Aplicações Web Com o Novo Angular 4 - Udemy

UC-SQKTZCW8



Curso Completo do Desenvolvedor NodeJS e MongoDB - Udemy

UC-74D5WN5Z



Git e Github - Udemy

UC-74D5WN5Z



Redes de Computadores - Udemy

UC-JCU911SD



Restful Web Service with Spring Boot - Udemy

UC-RCOZKVIR



Curso completo de PostgreSQL! Do Básico ao Avançado - Udemy

UC-0HKISF79



API Restful com Spring Boot, Kotlin e MongoDB - Udemy

UC-2NJ0OG97



Formação Angular 2, 4 e 5 - Udemy

UC-FIEGL4MH



Amazon Web Services - Learning and Implementing AWS Solution - Udemy

UC-7G4G2FC1



API RESTful avançada com Spring Boot e Java 8 - Udemy

UC-DK1PVN31



Data Science - Udemy

UC-C71GUP19



TensorFlow for Deep Learning with Python

UC-BJTP0Z8P



Machine Learning A-Z™: Hands-On Python & R In Data Science

UC-DP9S641X



Setor de Games no Brasil - Federal University of Rio Grande do Sul

7e8c94f0-3182-11e8-9130-7370133bb89b



Unity Developer C#

UC-93Q2YDB7



Unity 2017 C#

UC-1WLH0PA7



Unity 3D

UC-8IMOVSSS



Internacionalização no Setor de Games - Federal University of Rio Grande do Sul

<https://lumina.ufrgs.br/mod/simplecertificate/view.php?id=2279&action=get>



Learn Dart Web Programming - Udemy

UC-TAKU7XLD



API RESTful avançada com Spring Boot e Java 8 - Udemy

UC-DK1PVN31



Angular (Full App) with Angular Material, Angularfire & NgRx - Udemy

UC-UOQWPLHL



The Complete React Native and Redux Course - Udemy

UC-YCAVHPGQ



MongoDB - M1 - MongoDB

928d10b7-d673-4d52-be5c-e815ace2



MongoDB - M040 - MongoDB

3f63cf02-5f07-4f53-a449-f615f53b



Neo4J - Neo4j

928d10b7-d673-4d52-be5c-e815ace2



MongoDB - M101P - MongoDB

1163a25e-a8e7-4b8f-8697-b823b42e



Google Remote Procedure Calls (gRPC) - Udemy

UC-GVK5WLN3



MongoDB M220J: MongoDB for Java Developers - MongoDB

162e3112-3708-43e7-9597-618031d



Google Cloud Platform Essentials - Google

<https://www.qwiklabs.com/>



Preparing for the Google Cloud Associate Cloud Engineer Exam - Coursera

4UUYSMHAYHFH



AWS - Amazon Redshift Service Primer - Amazon Web Services (AWS)

S6F_6uhOE0eYtNvY62ub0w2



AWS - Amazon Neptune Service Primer - Amazon Web Services (AWS)

7-KwvtLjQkGmpdxplQeKFg2



AWS - Amazon RDS Service Primer - Amazon Web Services (AWS)

qLQBf3jGTEm8da9QbLGF4g2



AWS - Amazon DynamoDB Service Primer - Amazon Web Services (AWS)

btfxrwPRokGfEp_uLqjfYA2



AWS Certified Alexa Skill Builder - Specialty - Amazon Web Services (AWS)

YQgvoUPoFUepDEBZ9DqIVg2



Google Chrome Deployment - Google



Google G Suite Deployment Services Credential - Google



Hadoop and MapReduce by cloudera - Udacity

ud617



ETL Processing on GCP Using Dataflow and BigQuery - Google

3460



Predict Visitor Purchases with a Classification Model in BQML - Google

1794



SQL for BigQuery and Cloud SQL - Google

2802



Qwiklabs and the Google Cloud Platform - Google

23



Cloud Hero Speedrun: Data Engineering - Google

227



Troubleshooting Common SQL Errors with BigQuery - Google

3642



Create Reports with Data Studio - Google

3614



























BigQuery in the GCP Console - Google

3616



Ecommerce Dataset with SQL in Google BigQuery - Google

3618

-  **Google Cloud Pub/Sub: Command Line** - Google
3719
-  **Google Cloud Pub/Sub: Console** - Google
3719
-  **Google Cloud Data Machine Learning** - Google
-  **Google Cloud infrastructure** - Google
-  **Google Cloud Platform** - Google
-  **Cloud Security Scanner** - Google
1715
-  **Data Loss Prevention: Command Line** - Google
599
-  **Google Cloud Datastore** - Google
-  **Google Cloud Stackdriver** - Google
-  **Google Cloud Big Data Analysis** - Google
-  **G Suite Certification: Practice Lab** - Google
-  **Google Cloud Build a Complete Database** - Google
-  **Google Cloud Firebase Web** - Google
-  **Exploring and Preparing your Data with BigQuery** - Coursera
9TPDHGHJK3JZ
-  **Preparing for the Google Cloud Professional Data Engineer Exam** - Coursera
ZN6GEFQN8DX2
-  **How Google does Machine Learning** - Coursera
ZSQMXRXP89C
-  **Google Cloud Certified Professional Cloud Architect** - Coursera
UMPCQG2RJP2W
-  **Google Cloud Platform Big Data and Machine Learning Fundamentals** - Coursera
N6Q44TKL62M7
-  **Cloud Architecture** - Google
45b9712b-f438-49b9-a02f-d5ef69d0fcfa
-  **Kubernetes in the Google Cloud** - Google
45b9712b-f438-49b9-a02f-d5ef69d0fcfa
-  **Cloud Engineering** - Google
45b9712b-f438-49b9-a02f-d5ef69d0fcfa
-  **Cloud Data Engineering** - Google
45b9712b-f438-49b9-a02f-d5ef69d0fcfa
-  **Leveraging Unstructured Data with Cloud Dataproc on Google Cloud Platform** - Coursera
QT5ZSHX8SYHW
-  **Serverless Data Analysis with Google BigQuery and Cloud Dataflow** - Coursera

CM6ZRDMWHCXD



Serverless Machine Learning with Tensorflow on Google Cloud Platform - Coursera

FEA9LQGY68JT



Data Engineering, Big Data, and Machine Learning on GCP - Coursera

S675KFZKFW6K



Data Engineering with GCP - Coursera

9LNNY7WHRGPN



Building Resilient Streaming Systems on Google Cloud Platform - Coursera

D4JN75ZXZ8CP



MongoDB M320 Data Modeling - MongoDB

7067e908-17d2-4560-beb4-4836d8e739ff



Essential Cloud Infrastructure: Foundation - Coursera

D32MLWQZKAR6



Essential Cloud Infrastructure: Core Services - Coursera

NM7Z5ZZP2N86



Elastic Cloud Infrastructure: Containers and Services - Coursera

V547X56UHMxz



Elastic Cloud Infrastructure: Scaling and Automation - Coursera

DA2ELULLKBDK



Reliable Cloud Infrastructure: Design and Process - Coursera

N8BUB94PY83U



Managing Security in Google Cloud Platform - Coursera

NSHGJ2JFGRJC



Microservices - Fundamentals - IBM

ASFSC339S6BP



Networking in GCP: Hybrid Connectivity and Network Management - Coursera

6TKWCZYKYUMN



Google Cloud Platform Fundamentals: Core Infrastructure - Coursera

33R8ST52JXV7



Architecting with Google Compute Engine - Coursera

8FXVYTVBSJHN



Networking in GCP: Defining and Implementing Networks - Coursera

22MTZ8VHF9W4



Networking in Google Cloud Platform - Coursera

Z35CRANZN3CS



Mitigating Security Vulnerabilities on Google Cloud Platform. - Coursera

F5XTPD2V2N3Y



Security in Google Cloud Platform - Coursera

XNPDFTNX6C35



Getting Started With Application Development - Coursera

UFW6ETXK2439



Architecting with Google Kubernetes Engine: Foundations - Coursera

ML7NYR4K2VJF



Architecting with Google Kubernetes Engine: Workloads - Coursera

BD2E6D76LMVN



Architecting with Google Kubernetes Engine: Production - Coursera

BUUQ5MJDABN4



Architecting with Google Kubernetes Engine - Coursera

66S56JXX2MM3



Scalable Machine Learning on Big Data using Apache Spark - Coursera

5G6DLLPKBCKJ



Machine Learning with Python - IBM

VYY9RFK6FDZP



Machine Learning with Python - Coursera

VYY9RFK6FDZP

Honors & Awards



Analista de Sistemas e Projetos - Hemoce: Centro de Hematologia de Ceará

Dec 2013

Skills

Python • Big Data • Scala • JavaScript • C++ • Docker Products • Hadoop • Kotlin • PySpark • Google BigQuery