


Juan Carlos Rosito Cuellar


Data Scientist

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 [jcrs.github.io](https://github.com/jcrs)

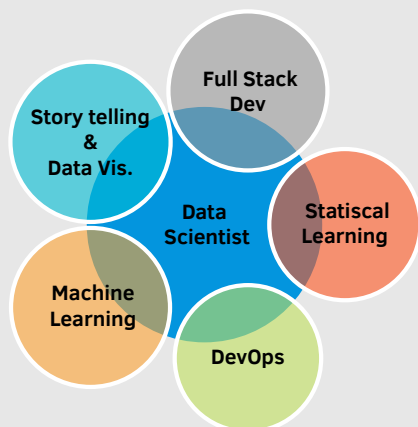
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 [/in/jcrc](https://in.linkedin.com/in/jcrc)

 Spanish, English, Italian

Technical Skills

Overview



Programming

0 LOC —————> 5000 LOC

Python • R • SQL

Java • KAFKA • \LaTeX • Knime • HTML

C++ • Scala • php • JavaScript

Education

MSc., Data Science (GPA: 3.5)

University of Milano-Bicocca

2017 - 2019 (On Course) | Milan, Italy

Engr., Electronic Engineering (GPA: 3.7)

University of Del Valle of Guatemala

2016 - 2017 | Guatemala, Guatemala

BEng., Electronic Engineering (GPA: 3.5)

University of Del Valle of Guatemala

2010 - 2014 | Guatemala, Guatemala

Experience

Jul 2017 -
Apr 2018

Full-Stack Developer

O+M Plus Co-op With [Tigo Guatemala](#)

Android and Web application - Project

- Google Maps and FireBase Crashlytics platforms integration
- Backend on Android with SQLite, Retrofit and Volley implementation
- Backend on Server with LAMP platform
- Compass, camera, geo-localization and another sensors implementation

Jul 2017 -
Apr 2018

Software Developer

O+M Plus Co-op With [Samsung](#)

Product positioning - Project

- Integration of Autocad planes to be visualized in Samsung Gear VR with the Unity platform
- Augmented Reality generated with Unity and Vuforia
- Integration of stereoscopic videos to be visualized in Samsung Gear VR
- Execution of the IoT prototype, focused on Domotics

Jul 2016 -
Feb 2017

Engr. Candidate, Graduate Research

[University of Del Valle of Guatemala](#)

Thesis: Optimization tool to improve coverage by providing physical parameters on RBS in WCDMA

- Data Collection from UE with an Android app.
- Decision models Calculations and physical computations in Python.
- Coverage predictions using Okumura Hata with an Andrew antenna Radiation Pattern.
- Applications of the Standard WGS-84 at geodesic and geocentric calculations, involving Spherical and Cartesian coordinates.
- Using Multicriteria decision making (MCDM) Optimization Mathematical Model to provide an efficient ratio on signaling and interference on RAN.

May 2015 -
Jul 2016

RF Optimization Engineer

[Telefonica Movistar Guatemala](#)

- Responsible of RAN Quality of Service and monitoring, solving co/adj-channel interference and neighboring of 2G, 3G y LTE.
- BI (Business Intelligence) statistical manipulation and analysis.
- Radio Network design and coverage prediction with Wizard and ATOLL, changing physical and logical parameters.
- Transmission equipment knowledge (Radio Links and Fiber Optic, Coriant) and RBS commissioning and integration (E// Equipment).
- Deep Knowledge of GSM, UMTS and LTE Ericsson Networks. Modulation Schemes (BSPK, QPSK, 16QAM, 64QAM), Multiplexing and radio access technologies (FDMA, CDMA, TDMA, OFDM, OFDMA, SC-OFDMA).

Certifications

2018

SAS - Certified Predictive Modeler Using SAS Enterprise Miner 14

- Methods for Unsupervised Dimension Reduction, PCA and clustering, and Supervised Dimension Reduction as LAR/LASSO for High dimensional data
- Advanced Methods for Nominal Variable Selection and Model Assessment
- Advanced Predictive Models
- Multiple Target Prediction

References

- [Alejandro Gandara](#) - RF Consultor @ Astellia Spain
- [Mario Yan](#) - Network Optimization @ Telefonica Guatemala
- [Marlon Castillo](#) - Network Optimization @ Ericsson Guatemala