# 20140924_032209-1PERSONAL INFORMATION:

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# TECHNICAL SKILLS:

* BI (Business Intelligence) statistics analysis, ARPU and site revenue, for telecommunication market.
* KPI (Key Performance Indicator) statistics analysis and management to the data base on it, with SAP platform.
* Data Mining thesis, with android app as Data Collection, LAMP as Web Server and/or Data Base (DWH).
* Programming platforms and packages: Apache Nifi, Sandbox for apache Nifi, KAFKA, Python, R, Knime, java, c++, Unix, HTML, php, SQL, AMOS, Winfiol, MapInfo, ATOLL, Minilink Craft, Word, Excel, Power Point, Access, Visual Basic

**EXPERIENCIA PROFESIONAL**

**O+M Plus**

**Software Developer Engineer**

**Co-Work with Tigo Guatemala (July 2017 until April 2018)**

Full-Stack 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

**Co-Work with Samsung (February 2017 until June 2017)**

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

**Engineering Thesis (July 2016 until February 2017)**

**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-84at 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.

**Telefónica Móviles Guatemala S.A. (May 2015 until July 2016)**

**RF Optimization Engineer.**

* 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,

**Ericsson Guatemala**

**Professional practices (June 2014 until November 2014)**

* Manipulation, analysis and actualization of geographic data, using MapInfo
* Data from Electronic devices mapped into ATOLL.
* Intro Knowledge about actual modulations schemes (2G, WCDMA, LTE), IP technology, in transport layer, in telecommunications Network.
* Daily statistical reports to customers (Guatemala and Salvador)
* RBS audit and maintenance reports.

# EDUCATION, TRAINING AND SEMINARS:

* 2017 until now – Università di studio Milano Bicocca **– MSc. in Data Science**
* 2017 – Datacamp – **R Intermediate – Data Science**
* 2017 - Universidad del Valle de Guatemala - **Electronic Engineer**
* 2014 - Universidad del Valle de Guatemala - **Bachelor’s Degree in Electronic Engineering**
* 2011 – INTECAP Guatemala - **Electronic Circuits advance**

# REFERENCES

**Alejandro Gandara**

RF Consultor – Astellia Spain

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