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GitHub:

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Professional Summary

"I am excited about working with engineering projects, listen to different ideas, to use my creativity and come up with good result based on teamwork."



Skills

- Python, GitHub, C# ,Scala, R, Java, JavaScript. (Proficiency Order)
- Ubuntu/Linux Bash, SSH, Command Line, Vim, etc
- AWS Boto2, S3 Bucket AWS SageMaker, AWS Jupyter Notebooks
- NLP, Sentiment Analysis
- Tableau, D3, Seaborn Matplotlib, Widgets
- Kafka(Basic), GraphX, Spark
- Time Series ARMA models
- SQL (Practice and Theory)
- noSQL (Theory)
- Sklearn, Pandas, Numpy, NetworkX, Matplotlib Python - Machine Learning
- Map & Reduce (Big Data)
- GRAccess C# (Wonder Ware API)
- Automation - Control Dev. Manufacturing - SCADA Technology - PLC's
- Arduino, RaspberryPi
- Technology Integration and Adaptation
- Skilled in team negotiation communication, Customer Care
- Languages:
Spanish Native, English C1
German B2, French A1

Education

- Bachelor of Science in Mechatronics Engineering at Universidad Autonoma de Nuevo Leon.
- Master of Science in Computer Science Data Science at TU Delft

Work History

Atos Global IT Solutions -Sr. Integration Software Specialist:
January 2016 - July 2017. Support to update a SCADA system. Use of GRAccess Wonder Ware API to update automatically a software version. The main duty was to change automatically variable names based on fuzzy logic. Create library to learn old variable names patterns and create new ones. Technical support about the use of GRAccess. (Natural Language Processing C#)

LEGO Mexico - Automation Engineer:

August 2014 - January 2016. Technical support to manufacturing processes (know-how troubleshooting). Monitored installations and updates to the manufacturing technology area to meet the production requirements. Keep track of safety documentation (test plan and test reports) after debugging technology in coordination with production area, process engineers and quality department. Work in team with the manufacturing area to outperform output rates in the production department (listen to employees ideas).

Daltile Mexico - Automation Intern:

December 2013 - August 2014. General technical support to the manufacturing process (maintained, debugged and optimized automation programs), understanding different types of communication networks, safety reports.

Fest AG GmbH - Engineering Intern:

March 2013 - July 2013. Learn how the process of consultancy engineering projects work. The main activity was to test the user interface software in order to find programming errors and correct them. General understanding of automation engineering and network connections between engineering devices.

Universidad Autonoma de Nuevo Leon - Laboratory Assistant:

June 2011 - June 2012. Support with opening hours and general maintenance.

Sitel Mexico S.A de C.V. - Customer Service Agent:

September 2008 - June 2011. Customer service support, retention, technical support, service recommendations and billing statements feedback.

D' Confianza (Jewerly) - Administrative Assistant:

June 2006 - Septiembre 2008. General administration, customer service managing product inventory, sales reports and general reparations.

Cyber Cafe - Administrative Assistant:

Managing general administration, customer service and update financial reports.

Scholarships: (CUMEX,DAAD Bachelor)- CONACYT (Master)

Data Science Experience Annexed

Recommender Systems:

- Movie Recommender System: We developed a movie recommender system with movie posters. We use OpenCV to decompose the images into their color properties (RGB), with the subtracted data and a distance metric build a similarity matrix. Afterwards, retrieve the image that is closer to the properties of the desire movie.
- Rock Music Mixer System: We download a dataset with pieces of classic rock songs. We processed the audio recordings with Librosa to extract audio properties. My main task was to process the dataset to identify novelty points in order to find out which was the best time to introduce the new song.

#Python #Librosa #OpenCV #ImageProcessing #MusicProcessing

Big Data:

- Text processing. Use text to extract information out of it using map and reduce operations such as word count. Additionally, we gathered tweets and identify Hashtags to group tweets with the same topic.
- Profile Big Data System to understand the cost of hardware selection.
- Actors Network Analysis. We analyse how the friendships from a specific actor work, depending on the film where they interact with each other.
- Bitcoin Network Analysis. Download Bitcoin Data (10GB), out of the previous mentioned data a flowing money network was build. Thus, it was possible to infer properties from different accounts such as how many accounts are related to a given account, income money, outcome money, total balance in a period of time, historical total balance.

#Scala #Spark #MapAndReduce #PySpark #Java #AWS #Amazon #S3Bucket #Boto2

Artificial Intelligence:

- Artificial Intelligence Negotiation Agent. Worked with an artificial intelligence framework to negotiate user preferences.
- Nao Robot and Web Crawler Application. We build an application with a NAO robot and a web crawler to read the news papers to elderly people. The main idea was the filter of the news by sentiment.
. (Good, Bad or Neutral)

#Java #NAO #Python #Beautifulsoup #WebCrawler

Data Visualization:

- New York Tourist Information. Analyse New York city business area to identify daily activities that a tourist could enjoy. It was possible to see the distribution of business sectors around the city.
- Medical Volumen Visualization: Reproduce with a Java Framework a 3D Object. It had the possibility to show different layers such as the surface or the skeleton.

#Java #Leaflet #JavaScript #HTML #GeoSpatialData

Information Retrieval:

- Prototype to predict the Amsterdam Elections. We gathered tweets from Amsterdam. Afterwards, we filter the information per political opinion (hashtags with political parties names). My main task was to perform a correlation test over the geospatial data and with machine learning algorithms cluster the data using a k-nearest neighbor and hierarchical clustering techniques.

#Tweeter #Python #MachineLearning #UnsupervisedLearning #GeoSpatialData #CorrelationTest

Data Bases and Data Mining:

- Cancer Prediction in Gene. Take Dataset with gene information build a network with Igraph (Python), extract properties for each gene and use the ground truth data to train a Machine Learning algorithm (SVM) to predict the cancer.

#Igraph #MachineLearning #Python

Others:

- * Artificial Intelligence Conference May 2018 (Berlin). Pitch an idea about what can be done with the Sentinel-Hub data (Satellite Images). The proposed solution was the agriculture resource manager. We analysed demographic data from the European Union to identify, which vegetables and fruits were harvested in each country. Afterwards, we analyse the weather conditions in each country/region of country to link the corresponding data. Then with a Machine Learning algorithm (Decision Tree), we identify the countries which might be suitable to harvest certain fruit or vegetable. The main goal was to improve the food logistics transportation chain.