Jose Bacoy

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**Aspiring Data Scientist**

**PROFESSIONAL EXPERIENCE**

**Certification on Data Science at Springboard Data Science Career (Aug 2017)**

A six-month online workshop with 1-1 mentorship with a Senior Data Scientist in the industry. Completed a capstone project on Predicting Ship Vessel arrival using machine learning and deep learning techniques. Used randomforest model and long term short term algorithms with caret, Xgb, tensorflow and keras libraries written in python and sql. Obtained +/- 10 hours accuracy and 15% MSE compared to current MSE at 40%.

**Data Engineer**

OOCL USA Inc., San Jose, CA, 2014–Present (3yrs)

Currently, working as a data engineer for optimization of intermodal routes for empty and laden shipments for North American Region (NAG).

* Part of SPIDER NOE project which aims to reduce operational **costs by 5% ($50 million)** even with a tough economic and market conditions.
* Sole author of data pipeline for vessel network optimization engine (NOE) and Route Master (CargoSmart product)
* As release team member, implemented continuous integration (CI) using Jenkins and automated build using maven

**Release Engineer**

OOCL USA Inc., San Jose, CA, 2010–2014 (4yrs)

Currently, working as a data engineer for optimization of intermodal routes for empty and laden shipments for North American Region (NAG).

* Part of SPIDER NOE project which aims to reduce operational **costs by 5% ($50 million)** even with a tough economic and market conditions.

**Software Engineer**

OOCL USA Inc., San Jose, CA, 2007–2010 (3yrs)

Currently, working as a data engineer for optimization of intermodal routes for empty and laden shipments for North American Region (NAG).

* Part of SPIDER NOE project which aims to reduce operational **costs by 5% ($50 million)** even with a tough economic and market conditions.

**SKILLS**

**Java (3+ years)**, **Python (3+ years), R (2+ years), Oracle SQL (10+ years),** NEO4J, MongoDB, ETL, **Linux Bash Scripting (10+ years)**, SpotFire (Data Visualization), D3, Hadoop, **Spark (2+ years)**

**Machine Learning Techniques**

Regression (Linear/Logistics), SVM, Random Forests, Clustering, kNN, DBScan, ANOVA, Time Series Analysis, RNN, GBM, xgboost

Data Mining: pyspark and mllib

Deep Learning: tensorflow, keras

Natural Language Processing: genism, nltk

**EDUCATION**

**Certification on Data Science Career Program Springboard** A six-month online self-learning with 1-1 expert mentorship program

*Capstone Project #1: Prediction of Vessel Arrival Time using AIS data*

*Capstone Project #2: Prediction of Return Date of Empty Containers by Customers*

**Master of Science in Mathematics 2006 (GPA: 3.3)**  
DeLa Salle University, Manila, Phils

**Bachelor of Science in Mathematics and Statistics 1993 (GPA: 3.5 With honors)**

University of the East Manila, Phils