Mo Messidi
AWS Certified Big Data Specialty Engineer

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EXPERIENCE

Data Engineer | *April 2019 - Present*
Cruz Street | *Orange County, CA*

- Built robust and scalable data (ETL) pipelines using SQL, Python and Spark utilizing AWS services (Glue, EMR, EC2)
- Interfaced with clients to extract, transform, and load data from a variety of data sources using Python, SQL and Pyspark
- Developed API integration scripts for the company's cloud based data science as a service (SaaS) platform

Related Skills: Data Warehousing (AWS Redshift, AWS Athena), ETL (AWS Glue, AWS Lamda), Visualization (AWS QuickSight)

Software Engineer | *Sep 2016 - Nov 2018*
Novo Nordisk Engineering | *Copenhagen, Denmark*

- Developed GMP compliant software for distributed pharmaceutical manufacturing systems using object-oriented design
- Collaborated with cross-functional teams to define requirements, identify solutions and resolve issues
- Interfaced with stakeholders throughout the entire software development life cycle from design to deployment
- Translated functional requirements into efficient solutions that work well within the overall system architecture

Related Skills: Cross-functional Teamwork, OOP, Stakeholder Management, SDLC, Distributed Systems (Sattline)

Engineer - Operations Analytics | *Aug 2014 - Sep 2016*
A.P. Moller - Maersk Oil | *Copenhagen, Denmark*

- Queried sensor data (IOT) using SQL to identify and solve facility operational issues for offshore oil rigs
- Designed and deployed an analytical model that utilized data logs to predicts electrical fault locations
- Presented a successful business case to executive management about opportunities in the decommissioning market

Related Skills: Data Analysis, Financial Analysis, Statistical Modelling (SQL, Python), OLAP Databases (Oracle)

EDUCATION

Georgia Institute of Technology | *Aug 2018 - Expected May 2020*
M.S in Computer Science *Machine Learning Specialization*

Texas A&M University | *Aug 2009 - May 2013*
B.S in Electrical Engineering *Computer Engineering and Systems Specialization*

CERTIFICATION

Amazon Web Services (AWS) AWS Certified Big Data Specialty

PROJECTS

ChurnPredictor: A Customer Churn Prediction ML model For a Music Subscription Service | *Project Link*
Related Skills: Machine Learning (Scikit-Learn), Model Evaluation (Neural networks, Gradient Boosting, k-NN, SVM, Jupyter Notebooks)

Data Exploration for Fraud: Credit Card Common Point of Compromise Fraud Analysis | *Project Link*
Related Skills: Exploratory Data Analysis (NumPy, Pandas, Matplotlib) , Statistical Analysis (Python)

ICUCriticality: A ML model that predicts hospital patients' criticality using electronic health records | *Project Link*
Related Skills: ETL (Pyspark, Spark SQL), Distributed Computing (AWS EMR), Electronic Heath Records (EHR), Data Warehousing (AWS S3)

PUBLICATIONS

A Machine Learning Approach to Evaluation and Predicting Electoral Fundraising Performance | *Poster Link*
Related Skills: Data Ingestion (3rd party APIs), ETL, Machine Learning (K-means Clustering, PCA, Linear Regression), Visualization (D3.js)

Accurate Automatic Identification of Slow Wave Sleep using a Single EOG channel | *Paper Link*
Related Skills: Data Cleansing, Data Transformation (Matlab), Time-series Analysis (EEG, EOG), Statistics, Research

Skills

Programming Languages	Python · SQL · Scala · C++ · SattLine
Machine Learning / Analytics	NumPy · Pandas · Scikit-learn · PyTorch
Distributed Computing / ETL	Spark · Hadoop · Hive · Pig · AWS Cloud
EDA & Visualization	D3.js · Tableau · Matplotlib · OpenRefine