Jad Aboul Hosn

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EDUCATION

Master of Science - Computer Engineering	**May 2019**
Arizona State University, Tempe, AZ	**3.78 GPA**

Courses: Statistical Machine Learning, Artificial Intelligence, Distributed Database Systems, Data Mining, Data Visualization, Foundations of Algorithms

Bachelor of Science - Computer and Communications Engineering	**June 2017**
Minor in Business Administration	**3.5 GPA**
American University of Beirut, Beirut, Lebanon	

Courses: Database Structure and Design, Internet Security, Discrete Signal Processing

Scholarships

One of ~200 scholarship recipients selected from 15,000+ applicants, on a need and merit basis, to pursue a Computer Engineering degree at Arizona State University   **2017-2019**

RELEVANT SKILLS

Languages: **R** (tidyverse, caret), **Python** (scikit-learn, NumPy, SciPy, Pandas, TensorFlow), **SQL**, Java, C, C#, C++

Tools: **Databases & BI:** SQL Server, PostgresSQL, MongoDB, Hadoop, Apache Spark, Informatica, SSIS, AWS
    Data Visualization: Tableau, D3.js, ggplot (**R**), Seaborn, matplotlib, Ploty (**Python**)
    Version Control: git

Concepts: **Machine Learning:** Classification, Clustering, Bayes Nets, Regression, Feature Engineering, Data scraping, wrangling and visualization
    Databases: Data Pipeline, ETL, Database Warehousing, Database Architecture, Process Optimization

PROFESSIONAL DEVELOPMENT

Data Scientist, Loans & Risk Management	**Sept. 2018 – Present**
DriveTime	**Tempe, AZ**

- Building a multivariate time series regression model for vehicle depreciation, based on retained value per MOB
- Bucketing sold vehicles into 5 tiers, with a difference more of than 1000$ in depreciation between the lowest and the highest bucket (Expected savings of $2M in sold vehicles)

Data Engineer and Business Intelligence Developer	**June 2018 – Aug. 2018**
DriveTime	**Tempe, AZ**

- Saved 2+ hours/night in processing time by parallelizing and refactoring 20 SQL jobs for FTP file transfers
- Designed & optimized SQL queries to fetch data from star schema data model with causal external dimensions
- Automated a **monthly** ETL credit scoring procedure into a **daily** process, reducing processing time from **74 minutes** to **14 minutes** for the exact same data

Data Science Research Aide	**Dec. 2017 – May 2018**
School of Geographical Sciences, Arizona State University	**Tempe, AZ**

- Replaced a legacy map-matching algorithm with another that cuts down processing time **from days to minutes**
- Automated data scraping from twitter using **Python** (Pandas) and setup **ETL** jobs to create centralized repository
- Retrieved & manipulated large datasets & extracted significant features to project a cyclist's impact on the pavement

IT Audit and Data Assurance Analyst	**July 2017 – Aug. 2017**
Deloitte & Touche	**Beirut, Lebanon**

- Investigated the IT and data infrastructures of several banks and was able to stop a potential internal data breach
- Advised clients with policies and strategies to ensure safety and security of their businesses in case of a disaster
- Implemented ER Modeling and built a normalized schema with front-end reporting using complex queries and procedures

PUBLICATIONS

A Miniaturized Reconfigurable UHF Antenna	**2018**

IEEE International Symposium on Antennas and Propagation**,** pp. 1-2, Boston, MA