Jad Aboul Hosn

jadhosn@asu.edu - jadhosn.github.io - linkedin.com/in/jadahosn - (480) 417-8889

EDUCATION

Master of Science - Computer Engineering **May 2019**
Arizona State University, Tempe, AZ **3.8 GPA**
Courses: Statistical Machine Learning, Artificial Intelligence, Distributed Database Systems, Data Mining, Data Visualization

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++, HTML
French, English

Tools: **Databases & BI:** SQL Server, PostgresSQL, MongoDB, Spark, AWS, Azure, Snowflake
Data Visualization: Tableau, D3.js, ggplot (**R**), Seaborn, matplotlib, Plotly (**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, Data management, Big Data Analytics, Process Optimization

PROFESSIONAL DEVELOPMENT

Data Scientist **June 2019 – Present**
DriveTime **Tempe, AZ**

- Developing scalable predictive risk management model using survival analysis to capture the customer risk at origination
- Streamline data pipelines (Azure, Snowflake) complete with feature extraction and transformations that feed into models
- Acting as an internal consultant, working with other teams to deliver immediate value or periodically designing long term predictive models to drive business decisions

Data Science Intern **Sept. 2018 – May 2019**
DriveTime **Tempe, AZ**

- Built a multivariate time series regression model for vehicle depreciation to rank order vehicles by salvage value at auction
- Assessed the impact of vehicle selection, financing options and underwriting on costumer risk
- Productionalized predictive models using Docker containers and RESTful API for use across the organization

Data Engineer and Business Intelligence Intern **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

PUBLICATIONS

A Miniaturized Reconfigurable UHF Antenna **2018**
IEEE International Symposium on Antennas and Propagation**,** pp. 1-2, Boston, MA