JESSICA CLAIRE

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📍 Montgomery Street, San Francisco, CA 94105

SKILLS

- Languages: Python, R, Matlab
- Database: SQL, MongoDB
- Libraries: Scikit-Learn, pandas, numpy, matplotlib
- Software: Microsoft SQL Server, Git, Jira
- Data Vizualisation: ggplot, Matplotlib, dimple.js, Tableau, d3.js
- Web: HTML, CSS, JavaScript

EDUCATION

Udacity
online • 2017

Data Analyst Nano-Degree

University of Maryland
College Park • 2015

Master of Science: Systems Engineering

Sharif University of Technology
Tehran • 2013

Bachelor of Science

PROFESSIONAL SUMMARY

SQL programmer with expertise in database design and development. Proven ability to understand requirements and translate into actionable project plans in deadline-oriented environments. Dedicated analytical thinker with a passion for Data Science.

WORK HISTORY & PROJECTS

Apex Systems - SQL Database Developer
Bentonville, AR • 10/2015 - Current

- Develop complex SQL scripts to query data across multiple databases and feed the website and APIs
- Build, test, and deploy scalable machine learning system with an accuracy of 99% to classify more than 20,000 non-profit groups based on political activity
- Design and deploy a data quality assurance system to ensure data accuracy across staging and production environments, lowering the error rate by 18%
- Set up and maintain automated ETL processes, reducing the data processing time by 12%
- Create Indexes and optimize queries using Query Execution Plan
- Identify requirements, design Entity-Relationship (E-R) models for various applications, convert E-R models into relational schemas, and create a SQL scripts to implement models
- Develop ad-hoc SQL queries to analyze and troubleshoot data errors

The Mentor Network - Student
Pocatello • 08/2016 - 2017
Machine Learning

- Designed and implemented a learning algorithm to identify fraud in Enron data, using Python's libraries such as numpy, and Scikit-Learn

- Performed feature scaling, recursive feature selection, and parameter/algorithm tuning, resulting in 15% increase in precision/recall
A/B Testing

- Designed an experiment to evaluate a proposed change on Udacity's free trial feature
- Analyzed data to determine metrics, sizing, exposure, and duration

- Made recommendations based on sanity checks, sign tests, and significance
Data Wrangling

- Assessed the quality of the data for validity, accuracy, completeness, consistency and uniformity
- Parsed and gathered data from various file formats such as .json, .xml, and .csv
- wrote queries to aggregate data using MongoDB or SQL
Exploratory Data Analysis (EDA)

- performed EDA on individual contributions to '16 presidential election using R
- Visualized the analysis using ggplot to detect outliers, and discover patterns

Arrive Logistics - Research Analyst
Austin, TX • 08/2013 - 09/2015

- Collected and analyzed 170 requirements for a facility and its security system via industry standard analysis techniques including workflow analysis and functional analysis
- Developed an integrated data model with more than 200 elements using UML
- Performed various data analysis techniques such as regression analysis to evaluate system KPIs
- Published a paper on Elsevier Procedia Computer Science journal

New Jersey Institute Of Technology - Programmer Analyst
Newark • 11/2012 - 07/2013

- Wrote an optimization algorithm in Matlab for conceptual design of a microturbine engine
- Followed Agile/Scrum methodology to accomplish the project
- Conducted parametric analysis to evaluate engine performance using Matlab