ELIAS JAGHAB

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EDUCATION

Villanova University - Villanova, PA — Expected May 2022
Master of Software Engineering 4.00 CGPA

Villanova University - Villanova, PA — May 2020
Villanova School of Business (VSB)
Bachelor of Business Administration, Management Information Systems (Major), Business Law (Minor), 3.51 CGPA

University Courses: Algorithms & Data Structures, Design and Analysis of Algorithms, Programming for Adaptive Problem Solving, Database Management, System Analysis & Design, Mobile App Development, Platform Based Computing, Python Machine Learning, Software Design and Evolution, Requirements Engineering, Data Mining & DB Programming, IoT, Software Studio, Natural Language Processing

Online Courses: Distributed Computing with Spark SQL by Brooke Wenig and Conor Murphy, Web Developer Bootcamp by Colt Steele

SKILLS

Languages: Python, SQL, MongoDB, R, Java, JavaScript, HTML, CSS
Frameworks: Spark, React.js, React Native, Flask
Data Tools: Databricks, Airflow, Looker, Presto

EXPERIENCE

Collective Health – San Mateo, CA — 2021 - Present
Software Intern – Data Infrastructure
- Architected a pipeline to keep track of internal table usage on Looker by parsing SQL queries and extracting daily user interactions
- Reverse engineered Looker's view files to identify table relationships and dependencies
- Constructed a pipeline, dashboard, and alert system to identify the freshness and record counts of medical data feeds considering the day of the week
- Created a pipeline using ETL procedures with JSON objects to extract company data from a third-party provider's API

Dailyhuman – New York, NY — 2020
Data Validation Intern
- Identified and addressed shortcomings of data sourced from internet crawlers
- Leveraged lemmatization natural language packages in Python to identify 10000 new food tags
- Constructed a process to cleanse duplicate restaurant data entries with 95% accuracy

PROJECTS

Fraud Detection in Imbalanced Data
- Cleaned and analyzed a raw imbalanced data set of credit card transactions to decide the best fit ML algorithm using pandas
- Implemented Random Forest Classifier using Python and sklearn libraries

Repetitions
- Created a watchOS and iOS application in Swift using Agile methodologies that enables users to keep track of their fitness routines directly from their wrist

Predicting Alcohol Consumption in Students
- Used machine learning models such as random forest, decision trees, naive bayes and neural networks to predict highly correlated variables to determine whether a student heavily consumes alcohol on the weekend
- Identified the best model to be random forest with 95% recall

INTERESTS: Music, soccer, sci-fi/mystery fiction, Nintendo Switch, paddle-boarding