Hamza Khanane

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EDUCATION

App Academy   *2019*
- Rigorous 1000-hour full-stack web development program with <3% acceptance rate.

George Mason University   *2015-2019*
Bachelor of Science: Computer Science   *Dean's List (Spring 2019)*
Curriculum Highlights:
Mobile Application Development, Software Testing and Maintenance, Object Oriented Programming, Data Structures and Algorithms, Concurrent and Distributed Systems, Low Level Programming, Data Mining, Analysis of Algorithms.

SKILLS   Java, C, Python, Ruby, Rails, JavaScript, SQL, React, Redux, GIT, Android Studio, jQuery, Selenium, ZooKeeper.

PROJECTS

TradeX (React/Redux, Rails, PostgreSQL)   GitHub | Live Site
A Robinhood clone which allows users to buy/sell stocks all commision free.
- Leveraged AJAX request to pull real-time stock data from the IEX API allowing users to view current prices and stock info.
- Utilized the Recharts.js library to display a line graph for stock prices over a time frame of a day, week and month.
- Analyzed timestamps in the transactions table to keep track of user activity and designed a customized algorithm to calculate the user portfolio value over a time frame of a day, week and month.

NYC Real Estate (JavaScript, D3.js, HTML/CSS)   GitHub | Live Site
A data visualization application which shows various real estate properties sold in New York City over a year.
- Cleaned and partitioned a data-set of 28,000 real estate properties into months to improve user experience.
- Employed the Google Maps API to display all the property listings on a map.
- Added a layer over the Google Map to build customized markers and leveraged D3.js to manipulate DOM elements when a user interacts with the slider input.

Amazon Review Classification (Python)   GitHub
A machine learning model classifying Amazon reviews into positive or negative categories.
- Cleaned a data-set of over 18,000 Amazon reviews using NLTK to remove stop words, punctuations and null values.
- Transformed the test data and training data into matrices to calculate their cosine similarity to help compare reviews.
- Implemented my own version of the K Nearest Neighbor algorithm to calculate the category for each review.
- Achieved an 80% accuracy rate of assigning the appropriate categories to each review.

Make & Save (Java, Android Studio)   GitHub
An Android mobile application to connect a HandyMan and a customer who can post jobs.
- Used Firebase as the primary database and to implement user authentication/email verification.
- Leveraged the Google Maps API to calculate Lat/Long of every job posted in a radius and display their location markers .
- Employed the PayPal API for allowing users to pay for a job through their PayPal account or scan a credit card.

Movie Success Prediction (Python)   GitHub | Video Presentation
A machine learning model which predicts the success of a movie before it is released
- Used Pandas to clean an IMDB data set which consisted of 5000 movies.
- Utilized the Numpy library to calculate correlations between the IMDB score and other features to increase accuracy.
- Imported the Decision Tree Classifier library and used the Gini index as the node impurity to fit my model, achieved a 93% precision score.

EXPERIENCE

Resident Advisor
Mason Housing   *Aug 2018 - May 2019*
• Assisted 28 freshmen with their transition to college. Responsible for organizing community building programs.
• Conducted duty rounds throughout the neighborhood in order to assure security and enforcement of university policies.