

MUCAHIT ALPEREN YILDIZ

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EDUCATION

University of Massachusetts Amherst
Bachelor of Science

September 2017 - May 2021

Overall GPA: 3.46

Mathematics - *Mathematical Computing and Data Science*

Major GPA: 3.58

Relevant Courses: Programming With Data Structures, Combinatorics, Analysis of Algorithms, Scientific Computing, Regression Analysis, Databases, Advanced Calculus, Discrete Structures, Statistics, Applied Linear Algebra, Abstract Algebra, Differential Equations, Data Analysis With Python

PROJECTS

Spotify Playlist Creator (click me!)

- Utilized knowledge of React, Node.js, Express, and Passport.js to create a Heroku app
- Takes a mood from the user and converts it into a Spotify playlist using the Merriam-Webster Thesaurus API and the Spotify API
- Playlist is curated based on user's personal music taste and listening history

State Herd Immunity Projections (click me!)

- Analyzed data from an NBC News API containing information about COVID-19 vaccinations for all 50 states to project when a given state would reach the threshold for herd immunity from the Coronavirus
- Applied knowledge of JavaScript, React, and Git to create a map that displays data for a given state when that state is hovered over
- Data can be visualized in the form of a map or a table that can be sorted by attributes

Regression Analysis on Crime Data

- Used knowledge of R to analyze crime data in 47 states
- Wrote numerous functions to help find and perform diagnostics on subsets of predictor variables and potential models
- Performed hypothesis tests and regression analysis to find relationships between potential predictor variables and crime rates

TECHNICAL STRENGTHS

Tools	LaTeX, Git, HTML5, CSS
Programming Languages	Java, Python, JavaScript, R, Matlab
Frameworks	React, Express, Mongoose
Databases	MongoDB, SQL

WORK EXPERIENCE

Mr. Hamdi's Tailoring
Sales Associate

January 2016 - Present

- Sold dozens of tuxedos per prom season bringing in thousands of dollars of revenue for the business.
- Optimized time to ensure maximum amount of customers could be serviced.