Jetson Ku

Contact

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+1 (860) 287-9408

Education

University of Maryland
BS, Computer Science - Data Science
Minor: Mathematics - Statistics
2019-2023

Skills

- Python
- R
- SQL
- Tableau
- React
- Java

Software

Python:
Pandas, NumPy, sklearn, SciPy, Dash, MatPlotLib, Plotly, PyMuPDF, Selenium, BeautifulSoup

R:
Tidyverse, postmastr, dplyr, ggplot, cfbFastR, gt

Other:
Google Suite, Microsoft Suite, Photoshop, Linux

Links

I'm a recent Computer Science graduate from the University of Maryland with diverse interests in applying a data science role in industry. I am passionate about extracting long-term insights from large datasets and making these findings accessible to multiple audiences. I am currently seeking an exciting and challenging role where I can provide value along with expanding my skills as a data scientist or analyst.

Experience

University of Maryland Football   *April 2022 - Present*
Recruiting Student Assistant

- Created a team-personalized web application in Python/Dash that synthesizes and displays in-house analytics on recruits to streamline prospect identification process
- Wrote a Python script using the ZCruit API to build out a spreadsheet containing demonstrated interest metrics in Maryland using Twitter interactions
- Wrote a Python script using BeautifulSoup to scrape MaxPreps for weekly high school game scores of top prospects to automate task previously done by manually searching for every prospect
- Wrote a Python script using BeautifulSoup to scrape OverTheCap for contract data to produce a report on NFL salary cap spending and how it can translate to Name, Image, and Likeness spending in college sports based on player classification
- Watched and edited film using Hudl and Catapult Thunder
- Helped recruit the second best Maryland class via 247Sports since entering the conference in 2014

University of Maryland Men's Basketball   *September 2021 - April 2022*
Analytics Intern

- Pioneered the Men's Basketball Analytics department with one other intern
- Collected data from various sources including Synergy, KenPom, and others
- Worked under the video coordinator to establish routine individual player statistical scouting reports prior to each game which identified key weaknesses and strengths
- Created an interactive heatmap in Python/Dash that linked players' presence on the court to team performance

National Weather Service   *June 2021 - August 2021*
Lapenta Intern

- Wrote a script in Python to iteratively query a PostgreSQL database and produce pdf reports using PyMuPDF to verify that data was ingested correctly
- Integrated an automated email summary report to be sent at execution detailing potential outliers caught by the script and missing data.
- Presented project to peers and mentors at the conclusion of the internship

NOAA   *September 2020 - May 2021*
Research Assistant

- Investigated taxonomic and fish population data to identify trends from the coral reefs off of the coast of Florida with NOAA's Coral Reef Conservation Program
- Used project-specific R package to pull data from online database and analyze in RStudio and Excel

Academic and professional references available upon request

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Other Skills

- Leadership
- Collaboration
- Research
- Technical Communication

Interests

- Sustainable design
- Criminal justice
- Species conservation
- Finance
- Atmospheric science
- Marine science
- Analytic intelligence

Links

Extracurriculars

University of Maryland Men's Club Ice Hockey

Offices Held: Vice President, Treasurer

- Managed budget and accounts for two teams totaling more than $120,000
- Spearheaded a jersey sale fundraiser involving the licensing, production, and marketing of jerseys
- Point of contact for other teams, incoming recruits, rinks, and equipment providers
- Chosen as Team Captain for 2022-2023 season

University of Maryland Sports Business Society

- Attended meetings and seminars with keynote speakers in the sports management and marketing sphere

Relevant Coursework

CMSC320 - Introduction to Data Science

- Data scraping, data cleaning, visualization, machine learning

CMSC422 - Introduction to Machine Learning

- Neural networks, deep learning, classification

CMSC451 - Design and Analysis of Computer Algorithms

- Divide-and-conquer, dynamic programming, network flow, runtime analysis

STAT440 - Sampling Theory

- Sampling/nonsampling error, bias

AOSC247 - Scientific Programming: Python

- Python, Linux, data visualization

CMSC424 - Database Design

- Relational database design, SQL, querying

CMSC470 - Introduction to Natural Language Processing

- Language models, machine translation, machine learning

Personal Projects

Big Data Cup 2021

- Participants are given data and asked to define their thesis, provide a summary of their methodology, give an overview of their findings, and identify key action points from their analysis

NHL Daily Adjusted and Regressed Kalman Optimizations

- Inspired by Kostya Medvedovsky DARKO projections for the National Basketball Assosciation, I am working on applying his detailed methodology to Dom Luszczyszyn's NHL Gamescore