Joseph Matthew Ingenito

Contact

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Objective

Seeking a position in Data Science where I can apply my strong analytical and statistical skills gained from obtaining a master's degree in mathematics, along with my proficiency in software engineering and data visualization, to solve complex business problems and drive data-driven decision-making.

Education

M.S. - University of Denver
Sep 2021 – June 2023

GPA 3.63. *Relevant Courses*: Mathematics of AI and Machine Learning Seminar, Coding Theory, Statistics with R, and Probabilistic Combinatorics with Graph Theory.

B.S. - The College of New Jersey
August 2018 – May 2021

Cum Laude. *Honors Thesis Title*: On the Second Order Kuramoto Model of Coupled Oscillators. *Awards/Honors:* Junior/Senior Achievement Award. Pi Mu Epsilon National Mathematics Honors Society

Experience

May 2022 – June 2023
Graduate Teaching Assistant • University of Denver

- Assisted two courses each term, which involved hosting four office hours and two recitation hours each week.
- Graded weekly quizzes, as well as proctored all exams.
- Delivered seven substitute lectures for various courses.

August 2018 – August 2021
Full-Stack Developer • Visual Computer Solutions

- Utilized Agile Methodologies to maintain the codebase for a workforce management platform that manages the scheduling of over 700 police departments.
- Developed and implemented a scalable fuzzy string processing algorithm which improved the workflow of the entire Jobs 4 Blue division of the company, increasing the amount of extra duty jobs scheduled per day for police officers.

Key Skills

Python (Scikit-Learn, Numpy, Matplotlib, Pandas)
C# (.Net Framework, .Net Core)
Javascript
HTML5/CSS
Agile Methodologies
SQL (SSMS, LINQ to SQL)
RESTful API Development

Projects

MUSE Research Library

- Created a library in C++ to improve my research funded by TCNJ, which includes a custom Linear Algebra package to fit the needs of the project, and implementations of complex Analytic Number Theoretic algorithms.
- Improved the pipeline between data-collection programs in C++ and data-visualization programs in Python by using the JSON file format to store data and custom project configurations.

Fractal Research Library

- Designed a library in Python which provides tools to visualize complex Fractals based off a simple input format, saving time preparing posters and presentations.
- Implements an algorithm for generating such Fractals in a way that is quick and memory efficient.

References

Available upon Request