Joseph Matthew Ingenito

Contact

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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
Aug 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.

Key Skills

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

References

Available upon request.

Objective

I seek to apply my three years of experience with Agile Methodologies and Full-Stack App Development to deliver the best quality software solutions in a timely and efficient manner, and in a positive work environment where I can stay up to date with the latest technologies and industry trends, advancing my career in software engineering.

Experience

August 2018 – August 2021 | July 2023 - present
Full-Stack Developer • Visual Computer Solutions

- Utilized Agile Methodologies to maintain the codebase for a workforce management platform (React, .Net, and Xamarin.Forms) that manages the scheduling of over 700 police departments in the country.
- Developed and implemented a scalable fuzzy string processing algorithm which improved the workflow of the entire Jobs4Blue division of the company, increasing the amount of extra duty jobs scheduled per day for police officers.

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.

Projects

MUSE Research Library

- Developed 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 algorithms from Analytic Number Theory.
- Created a robust 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.