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OBJECTIVE

I am a seasoned Full-Stack Developer with a deep foundation in mathematics and software engineering, seeking to leverage my expertise in ASP.net, .Net Core, React, and agile methodologies to drive innovation and efficiency in software solutions. With a passion for AI and a commitment to continuous learning, I aim to contribute to a dynamic team where I can harness cutting-edge technologies to solve complex challenges and advance the frontier of software development.

KEY SKILLS

ASP.NET, .NET Core, C#/VB.NET, React, Node.js, Typescript, Python, SQL, HTML/CSS, REST APIs, Git, Agile Methodologies, Enterprise Level Software, Debugging Code, Teamwork, Problem Solving

PROFESSIONAL EXPERIENCE

Visual Computer Solutions   **August 2018 – Present**
Full-Stack Developer (Lead Jobs4Blue)

- Enhanced functionality and performance for three ASP.NET websites utilized by over 700 police departments, executing routine bug fixes, optimizing web pages, and introducing new features and custom reports, significantly improving user experience and operational efficiency.
- Engineered a sophisticated fuzzy string processing algorithm, streamlining a dataset of 18,000 vendors to 8,000 unique entities, thereby enhancing data accuracy, operational efficiency, and maintainability.
- Contributed to the migration of the main website from ASP.NET to a modern React/.NET Core infrastructure, playing a key role in enhancing system performance and scalability. Involved implementing best practices and optimizing legacy code, facilitating a smoother and more efficient user experience.

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

- Facilitated learning in two courses per term, providing dedicated support through four weekly office hours and leading two weekly recitation sessions, enhancing student understanding and engagement.
- Delivered seven guest lectures across multiple courses, successfully maintaining educational continuity, and receiving positive feedback for clarity and instructional quality.

PROJECTS

MUSE Research Library

- Spearheaded the development of a specialized C++ library, funded by TCNJ, to advance my research in analytic number theory. The library features a tailored Linear Algebra package, designed to meet the unique demands of the project, and incorporates sophisticated algorithms from Analytic Number Theory, enhancing research capabilities and analytical precision.
- Engineered a seamless data integration pipeline, facilitating efficient data exchange between C++ data-collection modules and Python-based data-visualization tools. Utilized JSON for versatile data and configuration management, optimizing the research workflow and enabling more insightful data analysis.

Fractal Research Library

- Innovated a Python library dedicated to the visualization of complex Fractals, enabling users to generate intricate fractal designs through a user-friendly input interface. This tool significantly streamlines the preparation of academic posters and presentations, enhancing visual communication of complex mathematical concepts.
- Implemented a novel algorithm for fractal generation that prioritizes speed and memory efficiency, ensuring the library's suitability for both academic research and educational purposes, and facilitating deeper exploration of fractal geometry.

EDUCATION

University of Denver, June 2023
Master of Science

The College of New Jersey, May 2021
Bachelor of Science, Cum Laude
- ❖ *Honors Thesis Titl*e: On the Second Order Kuramoto Model of Coupled Oscillators.
- ❖ *Awards/Honors:* Junior/Senior Achievement Award, Pi Mu Epsilon - National Mathematics Honors Society.