Nickolas Piraino

Open To Relocation
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LinkedIn Profile | Github Account

Experience

June 2021 - December 2023
BigLab, Florida State University – *Research Implementation Lead*

- Developed a robust pipeline for database imports, querying and parsing over 4 million documents, converting XML to JSON for MongoDB integration.
- Enhanced application performance by optimizing runtime and page load speeds through efficient data retrieval techniques in PHP.
- Utilized 3rd party APIs to effectively develop and implement backend processes.
- Developed multiple search engines and improved search result accuracy by 60% using a PHP frontend and MongoDB backend.
- Extracted and designed a schema for a dataset exceeding 4 million records, utilizing multithreading and multiprocessing in Python for efficient data handling.
- Created a custom AWS AMI from a virtual host disk to streamline environment setup for machine learning model deployment.
- Extracted hierarchical metadata from research tables for visualizations and improved data schemas.
- Prioritized efficient code writing and revisioning to ensure code quality and legibility.
- "COVIDKG.ORG - a Web-scale COVID-19 Interactive, Trustworthy Knowledge Graph, Constructed and Interrogated for Bias using Deep-Learning", appeared in EDBT, 2023
- Led successful funding acquisition efforts by spearheading NSF I-Corps program presentations, articulating the technical merits and research potential of the project, resulting in a significant grant that enhanced project funding and supported ongoing research development.

Projects

Movie Recommendation - Github Repo

Technologies: Next.js, Spring Boot, MongoDB Atlas. Tailwind CSS

- Developed a full-stack web application for managing movie recommendations and analytics.
- Integrated Spring Boot backend REST API with MongoDB Atlas cluster to handle product data and user authentication.
- Designed a responsive front-end using Next.js and Tailwind CSS.
- Improved load times by optimizing database queries and API responses.

Education

Graduated December 2021
B.S. Computer Science – Florida State University, *Tallahassee, Fl*

Skills

●JavaScript ●React/NextJs ●TailwindCSS

●AWS ●Git ●MongoDB ●Java ●Spring Boot