Eric Sclafani

Full stack Developer

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Experience

Junior Full Stack .NET Developer

Brooklyn, NY

Kings County District Attorney's Office

April 2024 - Present

- Tailor-made and delivered 3+ full stack web applications for different bureaus/units to facilitate data operations (CRUD). These applications enable non-technical Legal staff to record and view sensitive data pertaining to defendant cases, diversion program updates, and other important information.
- Using Angular, TypeScript, HTML, and CSS, developed intuitive user interfaces for web application frontends. Utilized Angular Material and Bootstrap to create user-friendly responsive Angular components. Built reactive forms to correctly capture and display important information submitted by Legal staff. Created custom form validation rules to ensure data consistency.
- Designed robust RESTful APIs using ASP.NET Core Web API to handle HTTP requests in application backends. Each Web API endpoint executes T-SQL stored procedures containing custom query logic to suit the application needs. Data is normalized across many tables and databases in SQL Server.
- Embedded SSRS reports hosted on separate server into application frontends via HTML iframes. They accept user-provided criteria and generate organized tabular data reports for non-technical end users.
- Resolved user-submitted tickets in timely and efficient manner via ServiceDesk software.
- Worked with Legal staff to translate their business requirements into full-stack applications.

Research Assistant

Stony Brook, NY

U.S. Government Research Program: IARPA HIATUS

October 2022 - August 2023

- Worked on a federal research project funded by the Intelligence Advanced Research Projects Activity (IARPA) called HIATUS, which focuses on authorship attribution, the task of automatically identifying the author of a document.
- Developed Gram2Vec, a Python package utilizing spaCy and Pandas to convert text into vectors based on writing style. Differs from other embedding algorithms like Word2Vec in that each vector position corresponds to a concrete feature pertaining to grammar usage. This makes the vectors interpretable, a property that traditional word vectors often lack.
- Performed authorship attibutions experiments with Gram2Vec using custom built K-Nearest Neighbors testing algorithm, as well as an evaluation suite provided by IARPA.
- Collaborated with team members to compile monthly progress reports.
- Research Paper: Peter Zeng, **Eric Sclafani**, Owen Rambow, "Gram2Vec: An Interpretable Document Vectorizer"

Skills

Frontend	Angular, RxJS, TypeScript, JavaScript, HTML, jQuery, VueJS
UI	CSS, SCSS, Angular Material, Bootstrap
Backend	ASP.NET Core, .NET, MVC, Python
Database	SQL Server, SSRS, T-SQL, SQLite
Tools	Git, Visual Studio, Linux
Other	Pandas, Scikit-Learn, NumPy, spaCy, Plotly, Matplotlib

Education

M.A. Computational Linguistics

Stony Brook, NY

Stony Brook University

August 2021 - May 2023

B.A. Linguistics

Stony Brook, NY

Stony Brook University

August 2019 - May 2021