Eric Sclafani

SOFTWARE DEVELOPER

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Experience

Junior .NET Developer   Brooklyn, NY
KINGS COUNTY DISTRICT ATTORNEY'S OFFICE   April 2024 - Present

- Within two months of employment, built document category/sub-category maintenance tool with an Angular frontend, ASP.NET Core backend, and SQL Server database. This app allows legal staff to perform CRUD operations such as adding new document categories and editing existing ones inside of lookup tables. This tool is essential to ensure correctness for all document related data and the various applications that rely on it.

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- Wrote stored procedures in SQL Server for applications to access data spread across various tables.

- Translated application requirements from legal staff into ...

- Worked with teammates to...

- Assisted application users with...

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 attribution experiments using Gram2Vec with testing code and data provided by IARPA.

- Collaborated with team members to compile monthly progress reports

Skills

Frontend	JavaScript, TypeScript, HTML, Angular, VueJS, jQuery, Ajax, RxJS
UI	CSS, Bootstrap, SCSS
Backend	ASP.NET Core, C#, Python, FastAPI
Database	SQL server, T-SQL, MySQL
Data Analysis	Pandas, Scikit-Learn, NumPy, spaCy, Plotly, Matplotlib
Tools	Excel, Git, Visual Studio, Linux

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