




Eric Sclafani

SOFTWARE DEVELOPER

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RESUME WORK IN PROGRESS

Experience

Junior .NET Developer

Brooklyn, NY

KINGS COUNTY DISTRICT ATTORNEY'S OFFICE

April 2024 - Present

- Within first month of employment, built REST API that enables Legal staff to perform maintenance on SQL Server lookup table that stores important information about document (sub)categories.
- Developed case flagger app as part of a suite of existing case flaggers that let Legal staff track information about defendants inside the Drug Treatment Alternative-to-Prison (DTAP) program. Initially a .NET Framework MVC and jQuery app, entirely re-engineered using Angular, Material UI, ASP.NET Web API, and SQL Server.
- Wrote complex SQL Server queries, stored procedures, and views that supply data to numerous data-driven applications
- Integrated newer applications into large existing codebase spread across numerous repositories
- Worked with Legal staff to translate their application requirements into fully functional software tools
- Provided fast and efficient tech support for application users

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, RxJS

UI CSS, SCSS, Bootstrap, Angular Material

Backend ASP.NET, .NET, C#, MVC, Razor Pages, Python, FastAPI

Database SQL server, T-SQL, SQLite

Data Analysis Pandas, Scikit-Learn, NumPy, spaCy, Plotly, Matplotlib

Tools Git, Visual Studio, Linux

Education

M.A. Computational Linguistics

STONY BROOK UNIVERSITY

Stony Brook, NY

August 2021 - May 2023

B.A. Linguistics

STONY BROOK UNIVERSITY

Stony Brook, NY

August 2019 - May 2021