

JUSTIN NAPOLITANO

Open source intelligence specialist proficient with Python, SAS, and SPSS. Experienced in feature extraction, data integration, and data visualization.



CONTACT

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EDUCATION

Bachelor Political Science Aug 2018

University of Central Florida Orlando, Florida

CERTIFICATES

Python Specialization February 2020

University of Michigan Coursera

TECHNICAL SKILLS

Programming

Python

C

Go

Java

Javascript

Scala



Data Handling and Analysis

Pandas

SAS (Statistical Analysis System)

Statsmodels

SQL

PySpark

NetworkX

TensorFlow/Keras



Communication

English

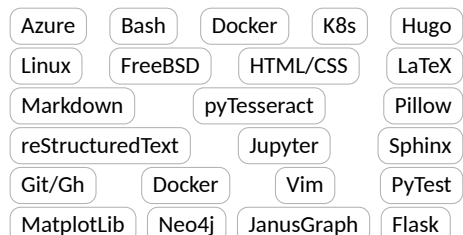
French

Spanish

Cantonese



SOFTWARE AND TOOLS



EXPERIENCE

Data Integration

May 2021 — Present

BTJN, LLC

Houston, Texas

- Mined data from Rest API to generate 250,000 qualified sales leads. Identified most valuable targets for client's marketing strategy.
- Stored historical data in Neo4j warehouse to quickly scale. Created pipeline nodes for crawlers to autonomously mine data.
- Integrated data with pySpark and Google Drive API to client's Google Sheets workflow from Neo4j backend. Improved pipeline efficiency by 500 percent.

CRM Development

January 2021 — May 2021

BTJN, LLC

- Deployed a custom CRM solution to automate email communication and sales funnels.
- Provisioned an Azure SQL server to interface with clients Office workflow.
- Pivoted to MySQL to increase ROI for clients. Completed data transformation and integration with Python Pandas scripts.

Sales Analysis and Reporting

February 2020 — August 2020

Cox Oil Company, Internship

- Forecasted sales by item of 57 retail stores with Statsmodel API to streamline inventory procedures.
- Piloted Microsoft SQL Server Python wrapper application to generate common sales reports for store managers.

Data Architect and Analysis

Jan 2017 — Aug 2019

University of Central Florida

Orlando, Florida

- Standardized feature extraction methodology to enable research assistants to code data points with minimal training.
- Implemented a third normal database to distribute data for publication.
- Identified demographic and socioeconomic features correlated with increased event probability.

PROJECTS

- **US Supreme Court Metadata Graph:** Mined text data from the Library of Congress API to cluster by political issue area.
- **Tensorflow Behavioral Prediction Paper:** Predicted Supreme Court outcomes with TensorFlow. Modeled political ideology according to the Epstein and Spaethe index.
- **Python Tools:** Published Python tools used to interface with Neo4j, JanusGraph, and Google APIs.
- **docs.jnapolitano.io:** Generated static website with Sphinx documentation tools to store documentation for my CV.

PUBLICATIONS

Turkish Kurdish Analysis Database

📖 Peace Economics, Peace Science and Public Policy vol 25, no. 4, pp. 36

👤 Demet Mousseau, Justin Napolitano, Alex Olson

📅 2019

DOI