# JUSTIN NAPOLITANO

Open source intelligence specialist experienced in feature extraction, data integration, and data visualization. Seeking opportunity to build and analyze data pipelines.

## CONTACT

- ✉ justin@jnapolitano.io
- ☎ +1-832-299-0372
- 📍 Houston, Texas
- 🏠 jnapolitano.io
- ⌨ justin-napolitano
- in justin-napolitano

## 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**          ●●●●●○

*Data Handling and Analysis*
**Pandas**                              ●●●●○
**SAS (Statistical Analysis System)**   ●●●○○
**Statsmodels**                         ●●●○○
**SQL**                                 ●●●○○
**PySpark**                             ●●●○○
**NetworkX**                            ●●○○○
**TensorFlow/Keras**                    ●●○○○

## RESEARCH TOOLS AND DATA SOURCES

| Nexis Lexis | Nasdaq Datalink |
| Correlates of War | United Nations Data |

## DOCUMENTATION AND PRESENTATION TOOLS

| Sphinx | LaTeX | Scientific Markdown |
| reStructuredText | Jupyter Books |
| MatplotLib |

## CORE COMPETENCIES

| Legal Research | Data Mining |
| Behavioral Analysis |
| Inferential Statistics | Economic Modeling |

## WORKING LANGUAGES

| English | French | Spanish |

## EXPERIENCE

**Data Pipeline Analyst**                **May 2021 — Present**
*BTJN, LLC*                                *Houston, Texas*

- Mined data from Rest API to generate 250,000 qualified sales leads. Identified most valuable targets by city for client's marketing strategy.
- Stored historical data in Neo4j warehouse to quickly scale. Created workflow trees for crawler programs to autonomously analyze data.
- Integrated data with PySpark and Google Drive API to Google Sheets workflow from Neo4j backend. Improved pipeline efficiency by 95 percent.

**CRM Developer**                **October 2019 — February 2021**
*BTJN, LLC*

- Deployed a custom CRM solution to automate email communication and sales funnels.
- Provisioned an Azure SQL Server to interface with Microsoft Office workflows.
- Completed data transformation and integration to local MySQL server with Pandas scripts to increase workflow efficiency and value.

**Sales Analysis and Reporting Intern**                **January 2020 — August 2020**
*Cox Oil Company*

- Forecasted sales by item for 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.

**Research Lead and Data Architect**                **Jan 2018 — 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 likelihood.

**Research Assistant**                **Jan 2017 — Jan 2018**
*University of Central Florida*                *Orlando, Florida*

- Managed team data coding, verification, and storage procedures for Cambridge University Press published article.
- Automated sentiment analysis of sentences with Python NLTK

## PROJECTS

- **US Supreme Court Metadata Graph**: Mined text data from the Library of Congress API to cluster cases by political issue area.
- **Tensorflow Prediction Paper**: Predicted Supreme Court outcomes with TensorFlow.
- **Python Tools**: Published Python tools to interface with Neo4j, JanusGraph, and Google APIs.
- **journal.jnapolitano.io**: Self hosted articles of personal interest.

## 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*