# JUSTIN NAPOLITANO

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

## 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  ●●●●○○
GoLang  ●●○○○○
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

| Azure | Bash | Docker | Kubernetes |
| Linux | LaTeX | myST Markdown |
| reStructuredText | Jupyter Books | Neo4j |
| MatplotLib | JanusGraph | SQL Server |

## CORE COMPETENCIES

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

## EXPERIENCE

**Data Pipeline 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 Google Sheets workflow from Neo4j backend. Improved pipeline efficiency by 95 percent.

**CRM Development**  **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 workflow.
- Completed data transformation and integration to local MySQL server with Pandas scripts to increase workflow efficiency and value.

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

- 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.

**Data Design and Analysis for Publication**  **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*