

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 SPSS 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 Integrator **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 workflow trees 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 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