

JUSTIN NAPOLITANO

Open source intelligence specialist proficient with Python, SAS, and SPSS. Experienced in feature extraction, integrating data, and visualizing data for peer reviewed academic papers.



CONTACT

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

SKILL TREE

Programming

Python
Bash
C
HTML/CSS
LaTeX
Markdown
reStructuredText
Go
Javascript
Scala



Software & Tools

Jupyter
Sphinx Documentation
Git/GH
Docker
Vim
Metasploit Framework
Nmap
K8s
pyTest



Data Handling and Analysis

Pandas
Statsmodels
SAS
Matplotlib
PySpark
Networkx
TensorFlow/Keras



Database

JanusGraph/Gremlin
Neo4j
SQL



Languages

English
Spanish
French
Cantonese



EXPERIENCE

Application Developer

BTJN, LLC

May 2021 — Present

Houston, Texas

- **Data Mining:** Developed Python application to mine greater than 250,000 sales leads.
- **Data Transformation:** Transformed records to client's data format with PySpark.
- **Data Warehousing:** Stored historical data in Neo4j warehouse.
- **Sales Forecasting:** Modeled retail sales with Statsmodels API.

Author/Project Leader

University of Central Florida

Jan 2017 — Aug 2019

Orlando, Florida

- **Data Visualization:** Visualized P.O.L.E graph with Matplotlib.
- **Feature Extraction:** Standardized project's feature extraction methodology.
- **Inferential Statistics:** Identified features correlated with increased event probability.
- **Project Management:** Trained team members to query databases and collect data points.

Research Assistant

University of Central Florida

Jan 2017 — Jan 2018

Orlando, Florida

- **Data Management:** Managed team data aggregation, verification, and storage procedures.
- **Data Verification:** ANOVA tested human scoring against automated scoring.
- **Sentiment Analysis:** Automated sentiment analysis of sentences with Python NTLK.

EDUCATION

Bachelor Political Science

University of Central Florida

Aug 2018

Orlando, Florida

CERTIFICATES

Python Specialization

University of Michigan

May 2020

Coursera

PROJECTS

Journal.Jnapolitano.io

Nov 2021 — Present

- **Commercial Research:** Identifying structural factors influencing international trade.
- **Metadata Mining:** Extracting features from the Library of Congress API.
- **Tensorflow Behavioral Prediction:** Predicting Supreme Court outcomes with TensorFlow.
- **Python Tools:** Releasing Python tools to interface with Neo4j, JanusGraph, and Google APIs.
- **Static Web Site Generation:** Creating websites with Sphinx and the Jupyter Book.

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

COMPETENCIES

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|--------------------|------------------------|--------------------|------------------------|
| Legal Research | Python Development | Sales Forecasting | Behavioral Analysis |
| Feature Extraction | Socioeconomic Research | Project Management | Inferential Statistics |
| Sentiment Analysis | Data Visualization | Economic Modeling | Ethnographic Research |