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# Justin Napolitano

Data Analyst / Data Architect / Developer

GitHub: justin-napolitano  
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Open source intelligence specialist seeking role requiring analytic skill set. Experienced in developing work flows with Python, SAS, and SPSS. Proficient in feature extraction, integrating data with existing workflows, and visualizing data for peer reviewed academic papers.

## EXPERIENCE

### Application Development

BTJN, LLC

May 2021 — Present

Houston, TX

- **Sales Forecasting:** Modeled retail sales with SARIMA, Holt-Winter, and Exponential Smoothing models with Statsmodels API.
- **Data Mining:** Developed Python application to mine greater than 250,000 leads.
- **Data Transformation:** Transformed results to client's data format with PySpark.
- **Data Warehousing:** Stored historical data in Neo4j warehouse.
- **Data Integration:** Integrated data into client's existing Google Sheets workflow.

### Research Lead/Author

University of Central Florida

Jan 2017 — Aug 2019

Orlando, FL

- **Article Publication:** Publish work in the Journal of Peace Economics, Peace Science and Public Policy.
- **Peer Review:** Prepared presentation for peer review at the Peace Science Conference at the Hague.
- **Feature Extraction:** Standardized feature extraction and storage methodology.
- **Data Integration:** Warehoused data to mongoDB.
- **Inferential Analysis:** Identified socio-economic features correlate with increased event probability.
- **Data Visualization:** Visualized P.O.L.E with Matplotlib.

### Research Assistant

University of Central Florida

Jan 2017 — Jan 2018

Orlando, FL

- **Sentiment Analysis:** Automated sentiment analysis of sentences with Python.
- **Data Verification:** ANOVA tested human scored sentences against automated scoring.

## SKILLS

- **Tools and Languages:** Azure, Bash, C, Git, Debian, Flask, Python, LaTeX, Markdown, RHEL, reStructuredText, Scala, Sphinx.
- **Data:** JanusGraph, Matplotlib, Neo4j, Networkx, Pandas, PySpark. SAS, SciPy, Statsmodels, SPSS, SQL.
- **Machine Learning:** Keras, TensorFlow.
- **Communication:** Cantonese, English, French, Spanish, Sranan Tongo.

## PROJECTS

### Docs.Jnapolitano.io

- **Project Documentation:** Recording project documentation with Markdown, reStructuredText, and LaTeX.
- **Static Web Site Generation:** Creating websites with Sphinx and the Jupyter Book Theme.
- **Python Tools:** Releasing open source Python tools to interface with Neo4j, JanusGraph, and Google APIs.

### Journal.Jnapolitano.io

- **Article Publication:** Publishing political, business, legal analysis papers.
- **Meta Data Mining:** Extracting features from the Library of Congress API.
- **Behavioral Prediction:** Predicting voting behavior with TensorFlow and the United States Supreme Court Database.
- **Developer Tutorials:** Writing tutorials for developer tools and programming languages.
- **Python Reference:** Collecting algorithms and data structures to implement in future projects.

## EDUCATION

Bachelor of Arts in Political Science , University of Central Florida

Aug 2018