Justin Napolitano

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Data Analyst / Data Architect/ Developer

GitHub: justin-napolitano
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Open source intelligence specialist seeking employment in role requiring analytic skill set and strong research ability. Experienced in developing analytic work flows with Python, SAS, and SPSS. Possess knowledge of creating research methodology, managing data integration, and visualizing data for peer reviewed academic papers.

EXPERIENCE

Application Development   **May 2021 — Present**
BTJN, LLC   *Houston, TX*

- **Sales Forecasting**: Modeled retail sales with SARINA, Holt-Winter, and Exponential Smoothing models with Statsmodels API.
- **Data Mining**: Developed Python application to mine 10,000 unfiltered sales leads weekly.
- **Data Sourcing**: Extracted records from REST API.
- **Data Transformation**: Transformed results to client's format with PySpark.
- **Data Storage Management**: Loaded transformation to Neo4j backend.
- **Data Integration**: Integrated data into client's existing Google Sheets workflow.

Research Lead/Author   **Jan 2017 — Aug 2019**
University of Central Florida   *Orlando, Fl*

- **Article Publication**: Led team to 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**: Integrated data to mongoDB.
- **Inferntial Analaysis**: Identified socio-economic features that correlate with increased liklihood of violence.
- **Data Visualization**: Visually conceptualized, violent activity, socio-economic conditions, and location data with Matplotlib.

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

- **Sentiment Analysis**: Automated sentiment analysis of sentences with Python.
- **Data Verification**: Verfied user scored sentences against programitic scores with ANOVA testing.
- **Data Management**: Standardized data aggregation and storage procedures.

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 Sphinx 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

- **Analysis Papers**: 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