JUSTIN NAPOLITANO

Developer, Analyst, Researcher. Concerned with energy production, climate change, and infrastructure. Generally interested in improving the quality of life for everyone.

CONTACT

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

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   ● ● ● ○ ○
Javascript   ● ● ○ ○ ○
Scala   ● ● ○ ○ ○

Data Handling and Analysis
Pandas   ● ● ● ● ○
SAS (Statistical Analysis System)   ● ● ● ○ ○
Statsmodels   ● ● ● ● ○
SQL   ● ● ● ● ○
PySpark   ● ● ● ● ○
NetworkX   ● ● ● ○ ○
TensorFlow/Keras   ● ● ○ ○ ○

SOFTWARE AND TOOLS

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

CORE COMPETENCIES

Python Development   Behavioral Analysis
Data Mining   ETL   Graph Database
Feature Extraction   Project Management
Inferential Statistics   Sentiment Analysis

LANGUAGE PROFICIENCY

English   French   Spanish

EXPERIENCE

Data Architect   **February 2021 — Present**
Napolitano-Tseng   *Houston, Texas*

- Mined data from Rest API to generate 250,000 qualified sales leads. Identified most valuable targets by city for client's marketing strategy.
- Stored historical data in Neo4j warehouse to quickly scale. Created workflows for crawler programs to autonomously analyze data.
- Integrated data with PySpark and Google Drive API to Google Sheets workflow from Neo4j backend. Improved pipeline efficiency by 95 percent.

Cloud CRM Developer   **October 2019 — February 2021**
Social Safety Initiatve

- 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

- **energy.jnapolitano.io**: Documenting the North American Energy network
- **court-behavior.io**: Statistical Analysis of the the behavior of US Supreme Court.
- **ch4.jnapolitano.io**: Testing reported methane emissions from rice paddy cultivation.
- **Justin's Data Blog**: Publishing articles relating to data and computer science.

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*